

LightGate® Customer Ordering Guide

Wholesale Business Markets

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Acronyms

FCC	Federal Communications Commission
ASR	Access Service Request
ASOG	Access Service Ordering Guide
SONET	Synchronous Optical Network
OCUT	Optical Customer Termination
OSWCT	Optical Serving Wire Center Termination
APS	Automatic Protection Switching
SAFT	Separate Alternate Facilities Transport
EFS	Error Free Seconds
SES	Severely Errored Seconds
BST	BellSouth Telecommunications
ANSI	American National Standards Institute
MSPP	Multi-Service Provisioning Platform
TPP	Transport Payment Plan
BICS	Building Industry Consultant
SPEC	Service Product Enhancement Code

Introduction / Revision History

Purpose

This ordering guideline is intended to provide Product Descriptions and General Ordering Information that is unique and specific to the BellSouth LightGate Service, which is supported by the BellSouth Federal Communications Commission (FCC)#1 Access Tariff.

NOTE: This is not a complete ordering guideline for Transport Products.

Disclaimer

The information contained in this ordering guideline is subject to change. BellSouth will provide notification of changes through the Carrier Notification Process.

Version Information

Updated error in SPEC table. Added Link to NC/NCI code tool.

TABLE A. Revision History

Chapter	Action Request #	Date / Issue	Description	Change Requested By / Made By / Posted By
SPEC Field	19155	July 7, 2006/ 2a	Updated error in SPEC table. Added Link to NC/NCI code tool.	Jason Parson / posted by M. Laney
Site Preparation	N/A	February 22, 2006/ 2	Added BICS information to this document for Fiber-Optic Based Service.	Randy Ray/Jason Parson
Transport Payment Plan, Variable Term Agreement	17272	September 19, 2005 / 1a	Updated information related to changes in the TPP arrangement.	Terry Greene / Jason Parson / Mike Harfield
All	N/A	May 9, 2005/ 1	New Document	Jason Parson / Mike Harfield

1. WEBSITE Addresses

1.1 BellSouth Ordering Guides

The WEBSITE for this BellSouth Ordering Guide can be accessed by clicking [here](#).

1.2 Tariff Reference

LightGate is offered subject to the terms and conditions of BellSouth Tariff FCC No. 1, Section 7. BellSouth tariffs are available by clicking [here](#).

1.3 Technical Reference

Technical specifications for LightGate are available in BellSouth Technical Reference (TR) 73501 which can be downloaded from BellSouth's website by clicking [here](#).

2. LightGate® Service

2.1 Overview

The information in chapter 2 of this ordering guide addresses information that is unique to BellSouth's LightGate Service.

NOTE: This is Not a Complete Ordering Guide.

For Detailed information regarding specific BellSouth Access Service Request (ASR) entries, please consult the Access Service Ordering Guide (ASOG).

LightGate Service is an intraLATA optical private line service used either to connect two customer locations together or to aggregate traffic between a customer location and a central office. Using SONET (Synchronous Optical Network) standards, LightGate delivers high-speed, highly available point-to-point connections. Applications for LightGate include any combination of the following:

- **Voice**
 - Access to inbound and outbound local and long distance services
 - Linking PBXs together (via aggregation of tie lines)
- **Data**
 - LAN interconnection (using SONET interfaces)
 - Data center connectivity via ESCON or Fiber Channel (when used in conjunction with complementary optical CPE)
 - Internet access at speeds of 1.5 Mbps and above
 - Access to off-site storage facilities, applications service providers, and business recovery centers
- **Video**
 - Full-motion video conferencing
 - Distance Learning
 - Telemedicine

2.2 LightGate® Types

LightGate Service is available in several different formats:

- **Asynchronous Transmission LightGate (Electrical)-**
 - LightGate 1= 1 DS3
 - LightGate 2= 3 DS3s
 - LightGate 3= 12 DS3s
 - LightGate 4= 24 DS3s
- **LightGate SONET (Optical)-**
 - STS-1= 1 STS-1
 - OC-3 = 3 STS-1s
 - OC-12 = 12 STS-1s
 - OC-48= 48 STS-1s

- OC-192= 192 STS-1s

LightGate also has several types of systems. The Basic Electrical systems provides a mux at the customer premise and the central office. The interfaces are billed at both location.

The Basic System Optical Customer Termination (OCUT) provides a mux at the Central Office only. At the customer premises the fiber is terminated on the LGX panel and handed off at the speed of LightGate. Interface (s) are billed at the Central Office facility only, and if handing off at the speed of the facility, the customer must have a 4-fiber interface at the customer premises.

Finally, Optical Serving Wire Center Termination (OSWCT) provides a mux at the customer premises **only**. In the Central Office, the LightGate is handed off at the speed of the facility. Interfaces are billed at the customer premises only and must be channelized. Graphical depictions of the above systems are detailed below.

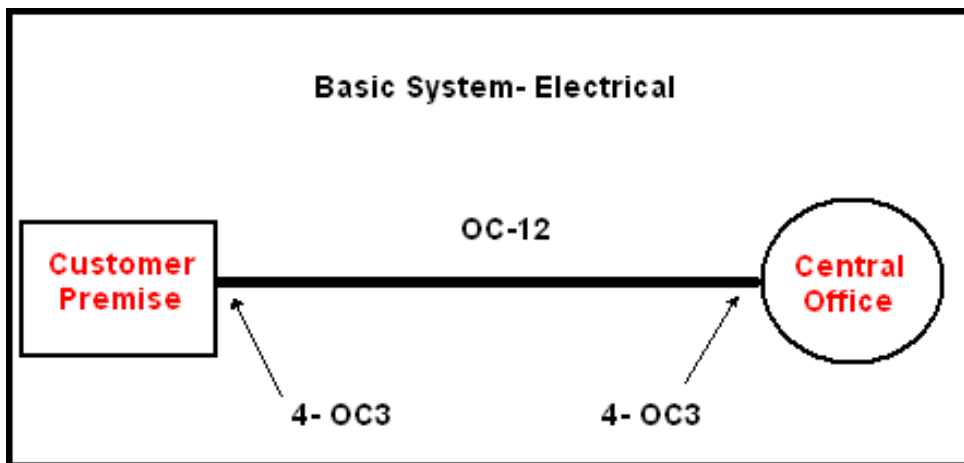


Figure 1. Basic System-Electrical

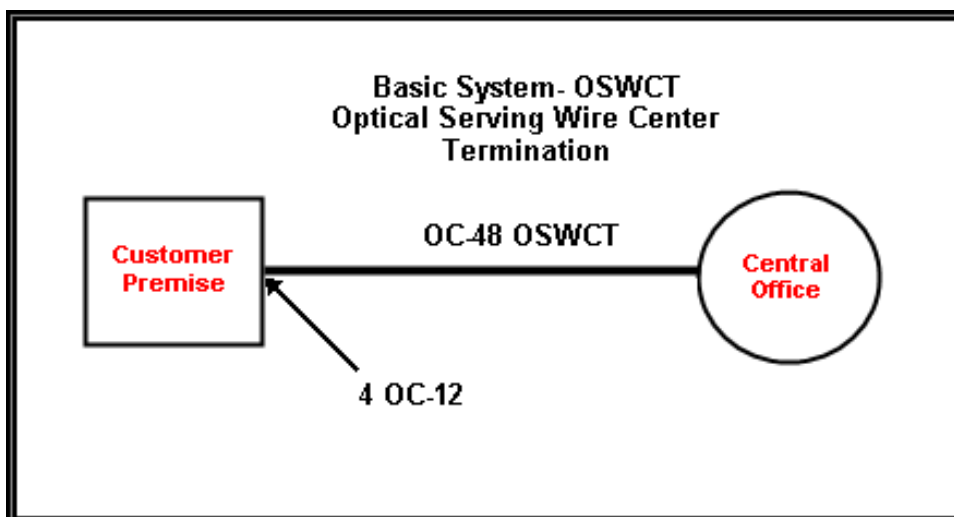


Figure 2. Basic System- OSWCT

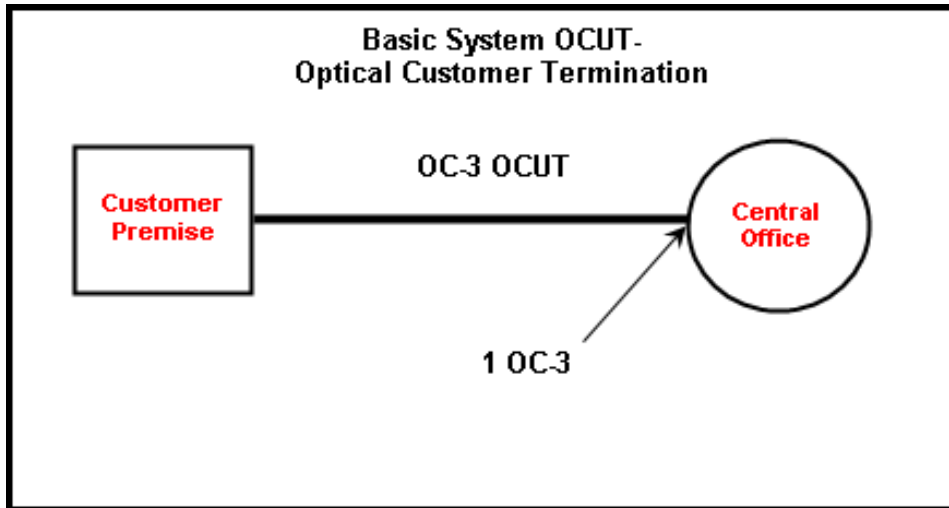


Figure 3. Basic System- OCUT

2.3 General Description- LightGate® Service

LightGate Service, also known as BellSouth SPA Point to Point Network, is a high capacity digital transport service consisting of DS1, DS3, STS-1, OC-3, OC-12, OC-48 and OC-192 channels. LightGate Service asynchronous local channels are provided in four systems sizes: LightGate 1, LightGate2, LightGate 3, and LightGate4 Service systems.

LightGate Service synchronous local channels are available in five system sizes: LightGate STS-1, LightGate OC-3, LightGate OC-12, LightGate OC-48 and LightGate OC-192 Service Systems. Asynchronous systems are capable of transporting DS1 and DS3 channels. Synchronous systems are capable of transporting all channels. The capacity of the LightGate local channels are located in the table below.

LightGate System	DS1	DS3	STS-1	OC-3	OC-12	OC-48
LightGate 1	28	1	--	--	--	--
LightGate 2	84	3	--	--	--	--
LightGate 3	336	12	--	--	--	--
LightGate 4	672	24	--	--	--	--
LightGate STS-1	28	--	1	--	--	--
LightGate OC-3	84	3	3	1	--	--
LightGate OC-12	336	12	12	4	1	--
LightGate OC-48	1344	48	48	16	4	1
LightGate OC-192	5376	192	192	64	16	4

Interoffice channels are provided in six system sizes: an asynchronous LightGate 1, a synchronous LightGate STS-1, LightGate OC-3, LightGate OC-12, LightGate OC-48 and LightGate OC-192 system interoffice channel.

LightGate Service channels may be connected in tandem to provide end-to-end connections between remote customer premises (CPs), or they may be combined with other transport or switching offerings of BST to provide private line, private network or public network solutions to telecommunications needs.

Synchronous LightGate Service can provide an optical interface termination at either the serving wire center or customer's location. An optical service wire center termination will support optical interconnection with other services. The OC-3, OC-12, and OC-48 optical channel interfaces and available optical customer terminations allows the customer the option of establishing an optical interface at their location.

3. Service Design and Feature Description

3.1 LightGate® Service Design

LightGate Service will generally be provided over fiber optic facilities as determined by BellSouth Telecommunications. LightGate Services may be used in link configurations for premises-to-premises applications or for hubbing applications.

The following components make up Asynchronous LightGate and LightGate SONET:

- Fiber backbone- Redundant Fiber optic line are the main transport of LightGate. The backbone consist of two components
 - Interoffice- fiber connecting the BellSouth Central Offices
 - Local Channel Miles- connecting the customer premises to its nearest BellSouth Central Office
- Multiplexing/de-multiplexing equipment (mux)- This equipment is location at both premises and the central office dependent on the configuration.
- DS1, DS3, STS-1, OC-3, OC-12, and OC-48 interfaces- This equipment is located at both customer premises and the central office.
 - Customer Channel Interface (CUCI)
 - Central Office Channel Interface (COCI)
 - Channelization- All or part of a LightGate system can be partitioned into channels that can be interconnect with other networks that transport voice, data and video traffic.

3.2 LightGate® Standard Features

LightGate® is a point-to-point service that may be provisioned from a customer location to a central office or from a customer location to another customer location. Channelization may take place at either or both ends. LightGate service can also be terminated in a BellSouth ATM or Frame Relay switch, as well as in a FlexServe arrangement. LightGate Features include:

- Operating speeds from 45 Mbps (DS3 level) to 10 Gbps (OC-192 level)
- Supports Multiple traffic types (refer to Section 2.1)
- Automatic Protection Switching (APS)- Automatic protection switching will move service, within 50 ms (milliseconds), if an outage occurs on the primary network.

LightGate SONET is offered as a channelized and non-channelized service. Channelized services allow lower level service to ride the LightGate SONET facility. Channelized services will typically be used by the customer as a transport for lower level services that do not necessarily terminate at the same location as the LightGate SONET facility.

3.2.1 Automatic Protection Switching

Automatic Protection Switching (APS) capability is a standard service feature that automatically switches customer service to protection facilities upon primary facility failure. APS refers to “card level” protection within the LightGate mux. If an interface card fails, APS will provide fail over to a standby or protection card to prevent service interruption. APS varies depending on whether the LightGate interfaces are Asynchronous (DS1, DS3,

STS-1) or Synchronous/ SONET (OCN) Asynchronous Channels Automatic protection switching capability is a **standard service feature** that automatically switches customer service to protection facilities upon primary facility failure. Card protection (1+n) is provided for DS1, DS3 and STS-1 channel interfaces as a standard feature. OC-12 systems and above that have been deployed on the MSPP platform (Lucent DMX) receive 1x1 DS1 and DS3 card protection.

3.3 LightGate® Optional Features

There are some optional features available with LightGate Service to further diversify your service. The optional features are as follows:

- Separate Alternate Facilities Transport (SAFT)
- 1X1 Card Protection at the Channel Interface
- C-Bit Parity
- Customer Network Management

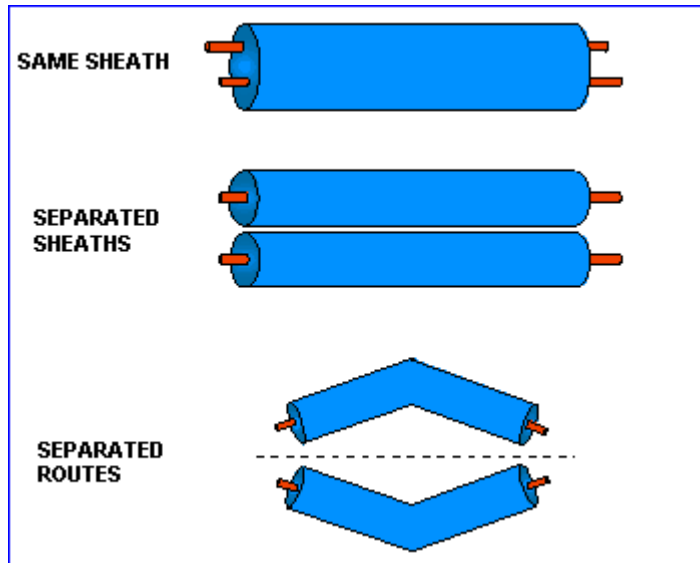
These optional features are discussed in detail in the subsequent sections.

3.3.1 Separate Alternate Facilities Transport (SAFT)

Two options are available to provide LightGate customers with added reliability to their service. **SAFT I** (pronounced “safety one”) and **SAFT II** (pronounced “safety two”). For more information regarding this optional service please refer to the FCC #1 7.2.9 (A). **SAFT I** consists of local channel protection facilities in a separate cable sheath from primary service facilities. BellSouth's guarantee consists of sheath diversity extended from the first outside plant service access point outside BellSouth's serving wire center to the last outside plant service access point prior to entering a customer's premises.

SAFT II features protection facilities in a separate cable sheath, separate associated supporting structure and route from the primary facilities. SAFT II is intended to provide substantial protection against a single event system failure commonly termed “backhoe fade”. It provides the highest level of protection from single event system failures. BellSouth will guarantee this level of facilities diversity extending from the first outside plant service access point outside the telephone company's servicing wire center to the last outside plant service access point prior to entering a customer's premises.

Below is a graphical example of the diversity available with each protection option.



3.3.2 1X1 Card Protection at the Channel Interface

A 4 fiber interface has 1x1 Card Protection at the SONET Multiplexer. CLS format non-channelized circuits can be ordered with non-protected 2-fiber interface or protected 4 fiber interface. CLF format channelized carrier systems can only be ordered with a 4-fiber interface. All systems with subtending services will be ordered with protection.

NOTE: SAFT does not have to be ordered with protection interfaces.

3.3.3 C-Bit Parity

C-bits are signaling and control bits used in T carrier systems. C-bits can be assigned special purposes such as parity checking. This is an option that customer would dictate and is provisioned at installation at no charge.

3.3.4 Customer Network Management (CNM)

This option is **not** used in LightGate, however it is used if LightGate rides on a Private SMARTRing.

4. Restrictions

4.1 Restrictions

LightGate Service local channel systems will be provided to a single location on a customer's premises. A local channel system may not be split between premises or terminated in multiple locations within a premises.

NOTE: LightGate Service does not qualify under any Service Level Agreements.

5. Performance

5.1 Performance Objectives

Performance quality objectives on the network side of the Network Interface (NI) are stated in terms of : Error Free Seconds (EFS), Severely Errored Seconds (SES) and Service Availability. STS-1/DS3 and DS1 performance objective are shown in the table below.

Performance Parameter	STS-1/DS3 Objectives (Long Term)	DS1 Objectives (Long Term)
% Error Free Seconds (%EFS)	EFS > 99.5%	EFS > 99.5%
% Severely Errored Seconds (%SES)	SES < 0.009%	SES < 0.009%
% Annual Service Availability	Availability > 99.99%	Availability > 99.99%

Optical interfaces that are jointly engineered by BellSouth Telecommunications (BST) and the customer should be designed to have a bit error ratio (BER) better than 1×10^{-10} . STS-1/DS3 service transported over these optical interfaces meet or exceed the above service quality performance objectives.

5.2 Error Free Seconds

And EFS is defined as any second in which there is no bit errors. Conversely, an Errored Second (ES) is one in which there is one or more bit errors. ES are typically transient in nature, arise from a variety of causes, and have a small probability of occurring at any give time. EFS objectives are long term, i.e. 30 days or more.

5.3 Severely Errored Seconds

A SES is defined as any seconds in which the Bit Error Ratio (BER) is 1×10^{-3} or worse. SES objectives are long term.

5.4 Annual Service Availability

Circuit Availability is a measure of the amount of time that the service is “unusable” by the customer. According to the ANSI service is assumed to be in the available state unless a transition to the unavailable state is observed without a subsequent transition to the available state. The transition between the available and unavailable state are:

- Transition to the unavailable state occurs at the beginning of 10 consecutive SES.
- Transition to the available state occurs at the beginning of 10 consecutive seconds none of which is a SES.

5.5 Service Credits

LightGate does **NOT** offer Service Level Agreements (SLAs). However, service interruptions of 1 minute or greater qualify for customer requested credit equal to 1 month of LightGate service charges. Other services riding the LightGate will be credited based on specific tariff guidelines related each product. No more than **1** (one)

credit is allowed per billing period. Detailed information in reference to service credits can be found in the FCC#1 2.4.4 (B) (11).

LightGate customers experiencing an interruption in service may be eligible for a credit allowance under the following conditions:

1. When service is interrupted due to causes other than the negligence of the customer, or to the failure of facilities furnished by the customer, a credit allowance will be made upon request for the portion of the service which is affected.
2. Where service interruptions of one minute or more per occasion occur, the credit applied shall be at the rate of 1440/1440 of the monthly charges for the LightGate service (AKA 100%).
3. All credit allowances shall begin from the time of notice by the customer to the Company and will end when the service is operative.
4. An interruption service period starts when the customer reports the interruption to the Company, and ends when the service is operative. A customer must report the outage in order to receive service outage credit.
5. No credit allowance will be made for interruptions of a service due to the failure of equipment or systems provided by the customer or others.
6. The total credit received in any month shall not exceed the monthly rate of the service.
7. Outage credits for DS1 channel interfaces and subtending DS1 services are as indicated in the tariff sections governing those service.

6. Network Interfaces

6.1 LightGate® Network Interfaces

LightGate Channel Interface availability varies with system size and transport architecture (asynchronous vs. synchronous). Customers who provide their own optical termination equipment associated with LightGate systems with optical termination at customer's premises are required to utilize compatible channel interface combinations to function with BST provided Central Office Channel interfaces.

TABLE B. LightGate® Channel Availability

Channel Interfaces Supported/ Capacity	DS1	DS3	STS-1	28 DS1/ DS3	28 DS1/ STS-1	OC-3	OC-12	10/100 Fraction al 1000 Mbps	1000 Mbps	OC-48
LightGate 1 (1DS1)	Y	Y	N	Y	N	N	N	N	N	N
LightGate 2 (3 DS3)	Y	Y	N	Y	N	N	N	N	N	N
LightGate 3 (12 DS3)	N	Y	N	Y	N	N	N	N	N	N
LightGate 4 (24 DS3)	N	Y	N	Y	N	N	N	N	N	N
OC-3 LightGate (155 Mbps)	Y	Y	Y	Y	Y	N	N	N	N	N
OC-12 LightGate (622 Mbps)	Y	Y	Y	Y	Y	Y	N	Y	N	N
OC-48 LightGate (2.5 Gbps)	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
OC-192 LightGate (10 Gbps)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

6.2 LightGate/LightGate SONET Asynchronous/ Synchronous Interfaces

The table below shows LightGate and LightGate SONET Asynchronous Interfaces:

TABLE C. LightGate/LightGate SONET Asynchronous Interfaces

LightGate System:	LG1	LG2	LG3	LG4
Customer Channel Interfaces				
DS1	Y	Y	N	N
DS3	Y	Y	Y	Y
Central Office Channel Interfaces				
DS1	Y	Y	N	N
DS3	Y	Y	Y	Y
28 DS1 Channel Interfaces	N	N	Y	Y
Interoffice Channel Interfaces				
DS1	N	--	--	--
DS3	Y	--	--	--
28 DS1 Channel Systems	Y	--	--	--

The tables below shows LightGate and LightGate SONET Synchronous Interfaces:

TABLE D. LightGate/LightGate SONET Synchronous — Customer Channel Interfaces

LightGate System	STS1	OC3	OC12	OC48	OC192
Customer Channel Interfaces					
DS1	Y	Y	N	N	N
DS3	N	Y	Y	Y	Y
STS1	Y	Y	Y	Y	N
OC3	N	Y	Y	Y	Y
OC12	N	N	Y	Y	Y
OC48	N	N	N	Y	Y
1000 Mbps	N	N	N	Y	Y

TABLE E. LightGate/LightGate SONET Synchronous — Central Office Channel Interfaces

LightGate System	STS1	OC3	OC12	OC48	OC192
Central Office Channel Interfaces					
DS1	Y	Y	N	N	N
DS3	Y	Y	Y	Y	Y
STS1	Y	Y	Y	Y	Y
OC3	N	Y	Y	Y	Y
OC12	N	N	Y	Y	Y
OC48	N	N	N	Y	Y
1000 Mbps	N	N	N	Y	Y

LightGate System	STS1	OC3	OC12	OC48	OC192
Central Office Channel Interfaces					
28 DS1 Channel Interfaces	N	Y	Y	Y	Y
STS1 Channel System	N	Y	Y	Y	Y
OC3 Channel System	N	N	Y	Y	Y
OC12 Channel System	N	N	N	N	Y
OC48 Channel System	N	N	N	N	Y

TABLE F. LightGate/LightGate SONET Synchronous — Interoffice Channel Interfaces

LightGate System	STS1	OC3	OC12	OC48	OC192
Interoffice Channel Interfaces					
DS1	N	N	N	N	N
DS3	N	Y	Y	Y	Y
STS1	Y	Y	Y	Y	Y
OC3	N	Y	Y	Y	Y
OC12	N	N	Y	Y	Y
OC48	N	N	N	Y	Y
28 DS1 Channel System	N	Y	Y	Y	Y
STS1 Channel System	Y	Y	Y	Y	Y
OC 3 Channel System	N	Y	Y	Y	Y
OC12 Channel System	N	N	N	N	Y
OC48 Channel System	N	N	N	N	Y
1000 Mbps	N	N	N	Y	Y

6.3 SONET LightGate 10/100/Fractional 1000 Mbps Interfaces

Ethernet Interfaces supported on SONET LightGate include the following : 10 Mbps, 100 Mbps, and Fractional 1000 Mbps. These services are offered in a symmetrical point to point arrangement only. These interfaces can either stay on the SONET LightGate or be connected to another SONET service (either another SONET LightGate or a SMARTRing). The Ethernet Interfaces are always non channelized. They are not a stand alone service and are only available in a point to point configuration.

The benefits of this service are: increased bandwidth using a cost justified technology interface, reliability, diversity, and redundancy. Ordering of incremental bandwidth is also another added benefit of SONET LightGate.

The following interface options are available on SONET LightGate:

- 10 Mbps interface
- 100 Mbps interface

- Fractional 1000 Mbps (Gig E) interfaces:
 - 50 Mbps
 - 150 Mbps
 - 300 Mbps
 - 450 Mbps
 - 600 Mbps

6.4 Ethernet Interfaces

Ethernet Interfaces are valid when provisioned on the LightGate local and interoffice systems provisioned on the Multi-Service Provisioning Platform (MSPP) platform. Ethernet Interfaces satisfies the customer's need to have Ethernet service delivered via LightGate and SONET technology.

System Size			
Interface	OC-12	OC-48	OC-192
10 Mbps	Y	Y	Y
100 Mbps	Y	Y	Y
1000 Mbps	N	Y	Y
Fractional 1000 Mbps			
50 Mbps	Y	Y	Y
150 Mbps	Y	Y	Y
300 Mbps	Y	Y	Y
450 Mbps	Y	Y	Y
600 Mbps	N	Y	Y

There are some restrictions associated with Ethernet Interfaces on LightGate services. These applicable restrictions are listed below:

- Ethernet Interfaces do not connect or interwork with BellSouth Metro Ethernet Service.
- Ethernet Interfaces must be provisioned on channelized LightGate systems.
- Ethernet Interfaces may not be provisioned in an asymmetrical arrangement.
- Ethernet Interfaces may not be provisioned on OSWCT or OCUT LightGate Systems

The table provided below shows the required bandwidth needed to connect Ethernet Service to LightGate Service.

Ethernet	Required Bandwidth
10 Mbps	1 STS-1
100 Mbps	3 STS-1s
1000 Mbps	21 STS-1s
150 Mbps/ Fractional 1000 Mbps	3 STS-1s
300 Mbps /Fractional 1000 Mbps	6 STS-1s

Ethernet	Required Bandwidth
450 Mbps/Fractional 1000 Mbps	9 STS-1s
600 Mbps/Fractional 1000 Mbps	12 STS-1s

7. FCC Tariff Payment Plans

7.1 Transport Payment Plan (TPP)

Rates and charges for all levels of LightGate services are available on a Month-to-Month basis, or under a contract payment plan.

According to BST FCC #1 Section 7, all Host Ring level rate elements, whether initially or subsequently ordered, must be provided under the same payment plan with the same service period. This includes interface rate elements associated with any overlaying rings.

However, other channel interfaces may be provided either Month-to-Month or under a TPP that is equal to or less than the payment plan of the associated Host Ring. It is the customer's option to convert from an existing Channel Service Payment Plan (CSPP) prior to expiration, at the expiration of an existing CSPP arrangement, customers must renew the service under a TPP arrangement to maintain contract rates.

Other highlights of the Transport Payment Plans are as follows:

- Waives Non-Recurring charges on LightGate Basic System (excluding Interface Charges)
- After 12 months of service, minimal termination liability

First Character Position- Alpha Character	Description
A	Standard Payment Plan

NOTE: As of October 15, 2005 customers who enter into a TPP billing arrangement with BellSouth may not prepay the outstanding recurring monthly rates in whole or in part for all rate elements included in the arrangement. Please refer to Carrier Notification letter — SN91085179.

Contract payment plans available are as follows:

Type Payment Plan	Number of Months- 2nd&3rd Character Position/Numeric
Payment Plan A	12 Months to 36 Months
Payment Plan B	37 Months to 60 Months
Payment Plan C	61 Months to 96 Months

7.2 Minimum Bill Requirements

LightGate Service rate elements billed Month-to-Month carry a 4 (**four**) month minimum billing period. If ordering from the Transport Payment Plan please refer to Section 7.1 of this document for more information.

8. Charges

8.1 LightGate Local Channel System Charge

A LightGate Local Channel System charge **always** applies when transporting STS-1, OC3, OC12, and OC48 service via a local channel, OCUT, OSWCT, and normal Local Channel Systems all have different system charges. A system charge **does not** apply if a higher level CFA replaces the local channel.

8.2 Cancellation Charges

If a request is received to cancel LightGate service, normal cancellation charges will apply to the non-recurring charges on all circuits involved in the cancellation.

In addition, BellSouth will recoup all expenses incurred for equipment classified as capital investment.

A customer may cancel an access order for the installation of service at any time prior to notification by BellSouth that the service is available for the customer's use. The cancellation date is the date BellSouth receives written or verbal notice from the customer that the order is to be cancelled. Verbal notice must be followed by written confirmation within 10 business days. On the due date, cancellation charges will be calculated at 100% of the applicable charges.

When a customer cancels a disconnect order; no charges will apply for the cancellation.

9. Service Inquiry

9.1 Service Inquiry Requirements

All LightGate service request are project managed by BellSouth. A project number will be assigned in accordance with the Interconnection Customer Service Center (ICSC) Project Coordination Process.

LightGate 1 service does not require a Service Inquiry for design, however most LightGate SONET services (OC-3, OC-12, OC-48 and OC-192) require a Service Inquiry for Design. DS3 or DS1 that are activated on a SONET level LightGate are handled in CSPS.

The following service request **DO NOT** require an SI for design:

- OC-3 and OC-12 Non Channelized riding a LightGate SONET OC-48 or OC-192 if all locations have been previously carded/configured for OC-3/OC-12 drops.
- Reconfigurations of a mux from a DS3 to an OCN Drop (Electrical to Optical)
- Recard of a mux from a DS3 to an STS-1 handoff
- Non Channelized OC-3 and OC-12 fiber cross connects between collocators in a central office

The following service request **DO** require an SI for design:

- New service establishment where no previous service exist at the location(s)
- SI for pricing LightGate OC level systems
- A move or change of customer/POP location
- Request for disconnects
- Additions of new systems at customer locations/POPs where another system already exist
- System size upgrades

Due Date (DD) intervals are assigned by BellSouth Project Management.

The ICSC will receive a completed Service Inquiry (SI) Firm Order Design and as a billed sketch.

Upon receipt of "Firm Order" SI for Design, the ICSC will review and validate the information for accuracy and completeness. If the SI is incomplete it will be referred back to the BellSouth Account Team.

The customer will need to be prepared to provide the following information to the BellSouth Account Team:

- The address/location of the equipment including the street, building, floor, and room location.
- The local customer contact, building owner contact, and their telephone numbers.
- Building owner/customer approval to place new facilities, if required.
- Carrier access form (CAR) form, as required.
- Is diversity required? If yes, are diverse entrance facilities available?
- Customer LGX requirements including size, tail length, and splicing tray requirements.
- Is space available on existing frames, relay racks, or will additional space be required?

- Is a power panel installed and ready for use? Does it consist of one or more of the following: 110 V/AC, -48 V/DC, 208 V/AC, or 240 V/AC?
- Is customer/building owner emergency power back-up system available?

9.2 FCC Service Inquiry Process

Orders for FCC LightGates should be sent to the Interconnection Carrier Service Center (ICSC) if sent by a Carrier. Wireless providers send their LightGate orders for OC level services to the Wireless account teams which complete the service inquiry and create a Wireless Service Request for the Wireless Service Center.

When ordering Electrical LightGate service, the customer will send an Access Service Request (ASR) to the Interconnection Carrier Service Center (ICSC). Wireless LightGate requests are created by the Wireless provider in CAFÉ. The Wireless account team is responsible for creating the Service Inquiry and retrieving the responses in CSPA.

Orders placed by the Customer for FCC Optical (LightGate and SMARTRing) the 90-DAY INTERVAL Process should be used.

10. Site Preparation

10.1 BICS Form Requirements

The Building Industry Consultant(BICS) must certify the building termination location. Click [here](#) to download a copy of general end user/property owner-provided requirements for fiber optic-based services.

NOTE: Actual requirements will be provided by BICS after a site meeting with your local contact and the building owner. This meeting is required to provide service.

11. ASR Requirements

11.1 ASR Requirements

LightGate and LightGate SONET Service is ordered from BellSouth through the use of an ASR. The Ordering and Billing Forum (OBF) is the responsible for the establishment of the ASR guidelines. Various software vendors provide electronic interface solutions for ASRs and your BellSouth Account Team Representative can assist you with information on how to obtain access to the Electronic Access Ordering (EAO) system or Carrier Access Front End (CAFE) system , which are BellSouth's online ASR interfaces.

If you have any questions or are in need of additional information please contact your BellSouth Account Team Representative.

11.2 Access Service Request Screen (ASR)

The ASR fields contain information directly related to the service being ordered. Valid fields on the for are listed below in the table:

TABLE G. ASR Form (Screen)- Administrative Section

FIELD	POPULATE WITH	USAGE
CCNA	Customer Carrier Name Abbreviation (3 Alpha Characters)	REQUIRED
PON	Purchase Order Number- Identifies the Customer's unique purchase order number for the request. (16 Alpha/Numeric characters)	REQUIRED
VER	Version Identification- Identifies the Customer's version number. (2 Alpha/ Numeric Characters)	CONDITIONAL Initial ASR Request= 00; if sending SUPP then assign next number (Example: 01 then 02 then 03)

FIELD	POPULATE WITH	USAGE
ICSC	Interconnection Customer Service- Identifies the provider service center (4 Alpha/Numeric Characters) Valid entries are: <ul style="list-style-type: none"> • SB01=GA • SB02=NC/SC • SB03=NF • SB04=SF • SC01=AL • SC02=KY • SC03=LA • SC04=MS • SC05=TN 	REQUIRED
CC	Company Code- Identifies the Exchange Carrier requesting local services (4 Alpha/ Numeric Characters)	PROHIBITED- Restricted to FCC#1
D/SENT	Date and Time Sent- Identifies the date and time that the ASR is sent by the Customer. (17 Alpha /Numeric Characters including 3 hyphens) Valid Entries are: <ul style="list-style-type: none"> • Two Digit Month (01-12) • Two Digit Day (01-31) • Two Digit Century (00-99) • Two Digit Year (00-99) • Two Digit Hour (01-12) • Two Digit Minute (00-59) • AM or PM 	REQUIRED
DDD	Desired Due Date- Identifies the Customer's Desired Due Date (10 Alpha/ Numeric Characters)	REQUIRED
REQTYP	Requisition Type and Status- Identifies the type of service being requested and the status of the request (2 Alpha Characters) Valid Entries are: 1st Character (specifies type of service) 2nd Character (specifies the status of the request)	REQUIRED

FIELD	POPULATE WITH	USAGE
ACT	Activity- Identifies the activity involved in the service request. (1 Alpha Character) Valid entries are: <ul style="list-style-type: none"> • N= New • D= Disconnection • C= Change or Modify existing service 	REQUIRED
RTR	Response Type Requested- Identifies the type of confirmation response requested by the customer. (2 Alpha/Numeric Characters) Valid Entries are: <ul style="list-style-type: none"> • D=Send DOC only • F= Send FOC only • S= Send FOC and DLR • N=No response required 	REQUIRED
PIU	Percentage of Interstate Usage- Identifies the expected Interstate Usage for the access service for the request. (3 Alpha/ Numeric Characters) Valid Entries Are: 100	REQUIRED
LTP	Local Transport- Identifies the switched access transport elements affected by this request. (4 Alpha/Numeric Characters)	REQUIRED
ECCKT	Exchange Company Circuit ID- Identifies the provider Circuit ID (53 Alpha/Numeric Characters)	REQUIRED- If ACT is C or D otherwise not populated
QTY	Quality- Identifies the quantity involved in the service request	REQUIRED
BAN	Billing Account Number- Identifies the billing account number to which the recurring and non-recurring charges for the request will be billed (12 Alpha/Numeric Characters) Valid Entries are: <ul style="list-style-type: none"> • Valid BAN (Example: 404 N00-0000) • N=New Billing Account requested • E= Existing 	REQUIRED

FIELD	POPULATE WITH	USAGE
SPEC	Service and Product Enhancement Code- Identifies specific product or service offering	OPTIONAL - 5 Alpha/Numeric characters minimum and 7 Alpha/Numeric character maximum (see section 10.3 for more info)
ACTL	Access Customer Terminal Location- Identifies the CLLI code of the Customer Facility terminal location. (11 Alpha/ Numeric Characters)	REQUIRED
REMARKS	Remarks- Identifies a free flowing field, which can be used to expand upon and clarify other data on this request. (186 Alpha/ Numeric Characters)	REQUIRED

11.3 SPEC Field (Required)

The Service Product and Enhancement Code (SPEC) is used to further define the type of channel, multiplexing, and routing the service will utilize. SPEC codes define the interfaces and diversity of the LightGate service.

LightGate Non-SONET SPEC Codes:

Character	Description	Entries
1	Type of Service	L= LightGate
2	Capacity	<ul style="list-style-type: none"> • 1=LightGate 1 • 2= LightGate 2 • 3= LightGate 3 • 4= LightGate 4
3	First System or Additional System	<ul style="list-style-type: none"> • 1= First DS3 requested for a multi-capacity system or LightGate 1 • A= Additional DS3 requested on a multi-capacity system
4	Associated DS3 Links Channelized/Non-Channelized	<ul style="list-style-type: none"> • N= No links associated with the DS3 are channelized • 1= One or more links associated with the DS3 are channelized

Character	Description	Entries
5	Configuration	<ul style="list-style-type: none"> • A= Customer Prem to CO, no channelization • B= Customer Prem to CO, customer prem channelized • C= CO channelization • D= Customer Prem to CO, CO and Customer Prem channelization • E= CO to CO, no channelization • F= CO to CO, A end channelized • G= CO to CO, Z end channelized • H= CO to CO, A and Z ends channelized • P= Prem to Prem (channelized determined by NCI/SECNCI Codes)
6	Diversity	<ul style="list-style-type: none"> • N= No SAFT • 1= SAFT 1 on local channel (primary location) • 2= SAFT 2 on local channel (primary location) • 3= SAFT 1 on local channel (secondary location) • 4=SAFT 2 on local channel (secondary location) • 5=SAFT 1 on local channel (both locations) • 6=SAFT 2 on local channel (both locations) • 7= SAFT 1 on local channel (primary location) SAFT 2 on local channel (secondary location) • 8= SAFT 2 on local channel (primary location) SAFT 1 on local channel (secondary location)

Example:

LightGate 1 Customer Prem to CO with CO Channelization, no SAFT = **L111CN**

NOTE: Failure to provide SPEC info on the ASR/WSR will delay the ordering and provisioning of LightGate SONET service.

LightGate SONET SPEC Codes:

Character	Description	Entries
1- -3	Type of Service	SNT= SONET
4	Primary Location Facility Combination	<ul style="list-style-type: none"> • A= OCUT (Optical Interface at Customer Location) • B=OSWCT (Add/Drop Multiplexer at Customer Location) • C= Local Channel- BellSouth Facilities (Customer Location or Collocation) • X= None (CFA or MUXLOC)
5	Secondary Location Facility Combination	<ul style="list-style-type: none"> • A= OCUT (Optical Interface at Customer Location) • B= OSWCT (Add/Drop Multiplexer at Customer Location) • C= Local Channel- BellSouth Facilities (Customer Location or Collocation) • X= None (CFA or MUXLOC)
6	Separate Alternate Facilities Transport (SAFT)	<ul style="list-style-type: none"> • N= No SAFT • 1= SAFT 1 on Local Channel POP/EU Primary Location • 2= SAFT2 on Local Channel POP/EU Primary Location • 3= SAFT 1 on Local Channel POP/EU Secondary Location • 4= SAFT2 on Local Channel POP/EU Secondary Location • 5= SAFT 1 on Local Channel, both locations • 6= SAFT 2 on Local Channel, both locations • 7= SAFT 1 on Local Channel POP/EU Primary Location, SAFT 2 on Local Channel POP/EU Primary Location • 8= SAFT 2 on Local Channel POP/EU Primary Location, SAFT 1 on Local Channel POP/EU Secondary Location

11.4 Administrative Screen (ADM)

The ADM fields involve general administrative information. For more information regarding these fields, the Carrier may refer to the ASOG.

TABLE H. ASR Form/Screen- Bill Section

Field	Populate With
BILLNM	Billing Name- Identifies the name of the person, office or company to whom the Customer has designated that the bill be sent (25 Alpha/Numeric Characters)
SBILLNM	Secondary Billing Name- Identifies the name of a department or group within the designated BILLNM entry (25 Alpha/Numeric Characters)
ACNA	Access Customer Name Abbreviation- Identifies the common language code for the Customer who should receive the bill for the ordered service (3 Alpha Characters)
STREET	Street Address (Bill)- Identifies the street of the billing address associated with the billing name. (25 Alpha/Numeric Characters)
FL	Floor (Bill)- Identifies the floor for the billing address associated with the billing name (3 Alpha/Numeric Characters)
RM	Room (Bill)- Identifies the room for the billing address associated with the billing name (6 Alpha/Numeric Characters)
VTA	Variable Term Agreement- Identifies the duration, identifying USOC, contract date or contract identification number of an variable term agreement that may be ordered by a provider. Lightgate qualifies for the TPP arrangement. Click the link to the left to find more information about requirements in this field.
CITY	City (Bill) - Identifies the city, village, township of the billing address associated with the billing name (25 Alpha/Numeric Characters)
ST	State (Bill)- Identifies the two character postal code for the state of the billing address associated with the billing name (2 Alpha Characters)
ZIP	Zip Code (Bill) - (12 Alpha/Numeric Character)
BILLCON	Billing Contact (15 Alpha/Numeric Characters)
TEL	Telephone Number Bill Contact (17 Numeric Characters- including 3 preprinted hyphens)

11.5 [VTA- Variable Term Agreement](#)

This field identifies the duration, identifying Universal Service Order Codes (USOCs), contract date or contract identification number of any variable term agreements. When ordering service under the TPP plan populate character position one with the desired plan (A). The next two characters are numeric and correspond to the number of months being committed under Plan A, Plan B, or Plan C.

First Character Position- Alpha Character	Description
A	Standard Payment Plan (most commonly used)

NOTE: As of October 15, 2005 customers who enter into a TPP billing arrangement with BellSouth may not prepay the outstanding recurring monthly rates in whole or in part for all rate elements included in the arrangement. Please refer to Carrier Notification letter — SN91085179.

Contract payment plans available are as follows:

Type Payment Plan	Number of Months- 2nd& 3rd Character Position/Numeric
Payment Plan A	12 Months to 36 Months
Payment Plan B	37 Months to 60 Months
Payment Plan C	61 Months to 96 Months

NOTE: This is a optional field unless ordering through a TPP arrangement.

11.6 ASR- Contact Section

TABLE I. ASR Form/Screen- Contact Section

Field	Populate With
INIT	Initiator- Identifies the Customer's employee who originated the request. (15 Alpha/Numeric Characters)
TEL NO	Telephone Number of Initiator- Identifies the telephone number of the number of Customer's employee who originated the request. (17 Numeric Characters- including 3 preprinted hyphens)
FAX NO	Initiator Fax Number- Identifies the fax number of the initiator. (12 Numeric Characters- including 2 preprinted hyphens)
STREET	Initiator Stress Address- Identifies the initiator's street address. (25 Alpha/ Numeric Characters)
FL	Floor- Identifies the floor of the initiator's address. (3 Alpha/Numeric Characters)
RM	Room- Identifies the room of the initiator's address. (6 Alpha/Numeric Characters)
CITY	City- Identifies the city of the initiator's address. (25 Alpha/Numeric Characters)
STATE	State- Identifies the two character postal code of the initiator's address (12 Alpha/Numeric Characters)
ZIP	Zip Code- Identifies the zip code or postal code of the initiator's address. (12 Alpha/Numeric Characters)
EMAIL	Initiator Electronic Mail Address- Identifies the electronic mail address of the Initiator. (60 Alpha/Number Characters)
DSGCON	Design Engineering Contact- Identifies the employee of the Customer or agent who should be contacted on the design/engineering matters and to whom the DLR will be sent. (15 Alpha Numeric Characters)
TEL NO	Telephone Number (DSGCON)- Identifies the telephone number of the Customer's employee who should be contacted on design/engineering matters. (17 Numeric Characters- Including 3 preprinted hyphens)
FAX NO	Design Fax Number- Identifies the fax number on the design contact. (12 Numeric Characters- including 2 preprinted hyphens)

Field	Populate With
DRC	Design Routing Code- Identifies the Customer's location routing code for the design contact for the request. (3 Alpha/Numeric Characters)
STREET	Street- Street Address (DGSCON)- Identifies the street address for the design/engineering contact/ (25 Alpha/Numeric Character)
FL	Floor (DSGCON)- Identifies the floor of the design/engineering contact's address. (3 Alpha/Numeric Characters)
RM	Room (DSGCON)- Identifies the room of the design/engineering contact's address (6 Alpha/Numeric characters)
CITY	City (DSGCON)- Identifies the city of the design/engineering contact's address. (25 Alpha/Numeric Characters)
STATE	State (DSGCON)- Identifies the two character postal code for the state of the initiator's address. (22 Alpha Characters)
ZIP	Zip Code- Identifies the zip code or postal code of the design/engineering contact's address
EMAIL	DSGCON Electronic Mail Address- Identifies the electronic mail address of the DSGCON. (60 Alpha/Numeric Characters)
IMPCON	Implementation Contact- Identifies the Customer's employee who is responsible for control of installation and completion. (15 Alpha/Numeric Characters)
TEL NO	Telephone Number (IMPCON)- Identifies the telephone number of the implementation contact. (17 Numeric Characters- including 3 preprinted hyphens)
D/TREC	Date and Time received- identifies the date and time that the provider received the ASR (Automatically Populated)

11.7 ASR Transport Screen (SPE/SP2)

The SPE/SP2 screens must be completed for order or service that terminates to a carrier customer's POP. There are two screens in the electronic ordering systems: SPE captures information regarding the primary location and SP2 refers to the secondary location.

TABLE J. ASR- SPE Screen

Field	Populate With	Usage
NC	<p>Network Channel- Identifies the Network Channel (NC) code for the circuit(s) involved. The NC code describes the channel provided by BellSouth from the End User's location to:</p> <ul style="list-style-type: none"> • a BellSouth central office • another End User location <p>The NC also describes portions of a circuit:</p> <ul style="list-style-type: none"> • ACTL to HUB • HUB to HUB • HUB to End User's location 	<p>Required- 4 alpha/ Numerics</p>
NCI	<p>Network Channel Interface Code- Identifies the electrical conditions on the circuit at the Primary Location.</p>	<p>Required-Five (5) alpha/ numeric characters minimum, and twelve (12) alpha/numeric maximum</p>
SECNCI	<p>Secondary Network Channel Interface-Identifies the electrical conditions on the circuit at the secondary ACTL or end user location</p>	<p>Required-Five (5) alpha/ numeric characters minimum, and twelve (12) alpha/numeric maximum</p>
CFA	<p>Connecting Facility Assignment-Identifies the provider carrier system and channel to be used from a Wideband High Capacity or Optical Network when the customer has assignment control.</p>	<p>Conditional-(42) alpha numeric characters.</p>
SR	<p>Special Routing Code-Identifies the Special Routing Requested</p> <ul style="list-style-type: none"> • DNN= SAFT at Primary • NND= SAFT at Secondary • DND= SAFT at Primary Location 	<p>Conditional-Prohibited when the ACT field on the ASR is "M"/ 3 Alpha/ Numeric Character</p>
MUX LOC	<p>Multiplexing Location-Identifies the CLLI code of the BellSouth Central Office which provides multiplexing for a service riding a High Capacity (HICAP) service. Blank=if multiplexing not associated.</p>	<p>Conditional-Eight (8) or Eleven (11) alpha/ numerics</p>
SCFA	<p>Secondary Connecting Facility Assignment- Identifies the provider carrier system and channel to be used from a Wideband High Capacity or Optical Network when the customer has assignment control.</p>	<p>Conditional-(42) alpha numeric characters</p>

Field	Populate With	Usage
GETO	General Exchange Tariff Options Code- Identifies the requirement for the not-tariffed or secondary tariff options in conjunction with the Access Service. For Example, inside wiring at the customer's premises, when the primary location is an End User Customer. Blank =no options. Y= Provide inside wiring and bill End User Customer directly	Optional -(1) alpha character
WACD1	Work Authorization Circuit Detail Link1 -This field identifies the first DS3 link to be cross connected with the DS3 identified in WACD2. The field is required when the service requested will be cross -connected to existing service.	Conditional -Up to 36 alpha/numeric character CFA assignment
WACD2	Work Authorization Circuit Detail Link2 -This field identifies the first DS3 link to be cross connected with DS3 identified in WACD1. This field is required when the service requested will be cross-connected to an existed service.	Conditional - Up to 36 alpha/numeric character CFA assignment
RMKS	Remarks -Identifies a free flow field which can be used to expand upon and clarify other data associated with the End User Special Access Request.	Optional -Up to (124) alpha/numerics

TABLE K. ASR- SP2 Field

Field	Populate With	Usage
MUXLOC	Multiplexing Location -Identifies the CLLI Code of the provider central office which provides multiplexing for a service riding a High Capacity Service. NOTE: Required when utilizing multiplexing services and the ACT field on the ASR Form in "N" or "C" otherwise optional.	Conditional -8 or 11 alpha/numeric characters

Field	Populate With	Usage
SECLOC	<p>Secondary Location-Identifies the terminating end of a circuit, a provider end office or the first point of switching for the circuit being provided.</p> <p>NOTE: The Secondary location of a ring segment which could be either a central office node or customer node. A customer node can be either an end user premise or an ACTL.</p> <p>Valid Entries:</p> <ul style="list-style-type: none"> • C- CLLI Code - SECLOC is a central office node • E- End user name- SECLOC is a customer node. <p>NOTE: When a "E" is entered in this field, the preassigned CLLI Code should be entered in the SPOT (SECLOC) field.</p> <p>NOTE: Required when the ACT field on the ASR Form is "N" or "C", otherwise optional.</p>	<p>Conditional-25 alpha/numeric characters.</p>
EUNAME	<p>End User Name- the end user name associated with the termination location.</p>	<p>Conditional-25 alpha/numeric characters</p>
ADDRESS	<p>Address- identifies the and address of the End User customer into which this leg of the circuit terminates.</p>	<p>Conditional-25 alpha/numeric characters</p>
CITY	<p>City-Identifies the city, village, township, etc. of initiator's address</p>	<p>Required-25 alpha/numeric characters</p>
RMKS	<p>Remarks-Identifies a free flowing field which can be used to expand upon and clarify other data on this form.</p>	<p>Optional- 186 alpha/numeric characters</p>

11.8 LightGate NC/NCI Codes

Valid LightGate NC/NCI codes can be found by utilizing the NC/NCI Look up tool. Please click [here](#) to link to this application.

12. LightGate Descriptions USOCS- Universal Service Order Codes

12.1 LightGate Service (AKA BellSouth SPA Point to Point Network)

USOC	Description
HFQC6	LightGate Basic System, Interstate, LightGate 1, 2, 3, and 4

12.2 LightGate (AKA BellSouth SPA Point to Point Network) Synch

USOC	Description
HFT13	LightGate Service System, Synchronous, interoffice channel, LightGate OC-3
HFRCC	LightGate Service, Synchronous DS3
HFR12	LightGate Service, Synchronous OC-12
HFR92	LightGate Service, Synchronous OC-192, Basic Class of Service
HFR03	LightGate Service, Synchronous OC-3
HFR48	LightGate Service, Synchronous OC-48
HFRST	LightGate Service, Synchronous STS1

12.3 Central Office Channel Interfaces

USOCS	Description
1PQEA	Feature activation, Central Office Channel Interface, per 28 DS1 Channel system
1PQEC	Feature activation, Central Office Channel Interface, per DS3
1PQED	Feature activation, Central Office Channel Interface, per OC-12, 4-Fiber
1PQEE	Feature activation, Central Office Channel Interface, per OC-12, 2-Fiber
1PQEF	Feature activation, Central Office Channel Interface, per OC-48, 4-Fiber
1PQEO	Feature activation, Central Office Channel Interface, per OC-48, 2- Fiber
1PQE1	Feature activation, Central Office Channel Interfaces, per DS1
1PQE4	Feature activation, Central Office Channel Interfaces, per STS-1
1PQE7	Feature activation, Central Office Channel Interfaces, per STS-1 Channel system
1PQE8	Feature activation, Central Office Channel Interface, per DS1 (synchronous)
1PQE9	Feature activation, Central Office Channel Interface, per OC-3 channel system
1PQFB	Feature activation, Central Office Channel Interface, per OC-3, channel system 1
1PQ12	Feature activation, Central Office Channel Interface, per OC-12 Channel System
1PQ48	Feature activation, Central Office Channel Interface, per OC-48 Channel System
1PQE6	Feature activation, LightGate Central Office Channel Interface, per OC-3 (4-Fiber)

USOCS	Description
1PQE5	Feature activation, LightGate OC-3, Interoffice Channel, central office channel interface (2-Fiber)
1PQEB	Feature Activation, OC-3 Interface Channel, per OC-3 channel system

USOCS	Description
MQ3C0	Multiplexing, DS3 to DS1, central office channel interface, 44.736 Mbps capacity per 28 DS1 channel system, LightGate 3 and 4 service

12.4 Customer Channel Interfaces

USOCS	Description
1PQEP	Feature Activation, Customer Channel Interface, Asynchronous System, per DS3
1PQE2	Feature Activation, Customer Channel Interface, Asynchronous, per DS1
1PQFO	Feature Activation, Customer Channel Interface, per OC-48, 4-Fiber
1PQF2	Feature Activation, Customer Channel Interface, per OC-48, 2-Fiber
1PQF4	Feature Activation, Customer Channel Interface, per STS-1
1PQF5	Feature Activation, Customer Channel Interface, per OC-3 (2-Fiber)
1PQF7	Feature Activation, Customer Channel Interface, per OC-12, (4-Fiber)
1PQF8	Feature Activation, Customer Channel Interface, per OC-12, (2-Fiber)
1PQF1	Feature Activation, Customer Channel Interface, Synchronous System, per DS1
1PQF3	Feature Activation, Customer Channel Interface, Synchronous System, per DS3
1PQF6	Feature Activation, LightGate Customer Channel Interface, per OC-3 (4-Fiber)

12.5 Interoffice Channel Mileage

12, Interoffice Channel, Mileage	
12, Interoffice Channel, Mileage	
12, Interoffice Channel, Mileage	
48, Interoffice Channel, Mileage	
48, Interoffice Channel, Mileage	
48, Interoffice Channel, Mileage	
3, Interoffice Channel, Mileage	
3, Interoffice Channel, Mileage	
3, Interoffice Channel, Mileage	
92, Interoffice Channel, Mileage	
12, Interoffice Channel, Mileage	
12, Interoffice Channel, Mileage	
12, Interoffice Channel, Mileage	
48, Interoffice Channel, Mileage	
48, Interoffice Channel, Mileage	
48, Interoffice Channel, Mileage	

USOC	Description
ILPS4	Private Line Voice Telephone mileage LightGate OC-3, Interoffice Channel, Mileage Band 0-8 fixed, per system
ILPS5	Private Line Voice Telephone mileage LightGate OC-3, Interoffice Channel, Mileage Band 9-25 fixed, per system
ILPS7	Private Line Voice Telephone mileage LightGate OC-3, Interoffice Channel, Mileage Band 26+ fixed, per system
ILPEB	Private Line Voice Telephone mileage LightGate STS-1, Interoffice Channel, Mileage Band 0-8, per mile
ILPEC	Private Line Voice Telephone mileage LightGate STS-1, Interoffice Channel, Mileage Band 9-25, per mile
ILPED	Private Line Voice Telephone mileage LightGate STS-1, Interoffice Channel, Mileage Band 26+, per mile
ILPSA	Private Line Voice Telephone mileage LightGate STS-1, Interoffice Channel, Mileage Band 0-8 Fixed, per system
ILPSB	Private Line Voice Telephone mileage LightGate STS-1, Interoffice Channel, Mileage Band 9-25 Fixed, per system
ILPSC	Private Line Voice Telephone mileage LightGate STS-1, Interoffice Channel, Mileage Band 26+ Fixed, per system

12.6 LightGate 1 Service

USOC	Description
HFSC7	LightGate Service, basic system, LightGate 1 local channel, per system , includes fist 1/2 air mile, stabilized plan
HFSC6	LightGate Service, basic system , local channel, LightGate 1, per system, includes fist 1/2 mile, month-to-month

12.7 LightGate 1 Service, (1 DS3 capacity), Interoffice Channel

USOC	Description
1PQE3	Feature Activation, LightGate central office channel interface, per DS3
1L8EA	LightGate Service, Separate Alternate Facility Transport (SAFT) local channel protection mileage one half air mile SAFT level 1, per system
1L8EP	LightGate Service, Separate Alternate Facility Transport (SAFT) local channel protection mileage one half air mile SAFT level 2, per system
MQ3C1	Multiplexing, DS3 to DS1, central office channel interface, 44.736 Mbps capacity per 28 DS1 channel system, LightGate 1
1LPE6	Private Line Voice telephone mileage LightGate 1 interoffice channel, over 25 miles, per mile
1LPE8	Private Line Voice telephone mileage LightGate 1 interoffice channel, 0-8 miles, per mile
1LPE9	Private Line Voice telephone mileage LightGate 1 interoffice channel, 9-25 miles, per mile
1LPS6	Private Line Voice telephone mileage LightGate 1 interoffice channel, over 25 miles, fixed, per system
1LPS8	Private Line Voice telephone mileage LightGate 1 interoffice channel, 0-8 miles, fixed, per system
1LPS9	Private Line Voice telephone mileage LightGate 1 interoffice channel, 9-25 miles, fixed per system

12.8 LightGate 2 Service

USOC	Description
HFSCD	LightGate Service, basic system, LightGate 2 local channel, per system , includes fist 1/2 air mile, month-to-month
HFSCF	LightGate Service, basic system , local channel, LightGate 2, per system, includes fist 1/2 mile, stabilized plan
HFSL2	LightGate Service, basic system, LightGate 2 Service System, per system with optical customer termination

12.9 LightGate 3 Service

USOC	Description
HFSCF	LightGate Service, basic system, LightGate 3 local channel, per system , includes fist 1/2 air mile, month-to-month
HFSCG	LightGate Service, basic system , local channel, LightGate 3, per system, includes fist 1/2 mile, stabilized plan
HFSL3	LightGate Service, basic system, LightGate 3 Service System, per system with optical customer termination

12.10 LightGate 4 Service

USOC	Description
HFSCB	LightGate Service, basic system, LightGate 4 local channel, per system , includes fist 1/2 air mile, month-to-month
HFSCJ	LightGate Service, basic system , local channel, LightGate 4, per system, includes fist 1/2 mile, stabilized plan

12.11 Local Channel Mileage, LightGate 1, 2, 3, and 4

USOC	Description
1LPEA	Private Line Voice telephone mileage LightGate, additional 1/2 mile

12.12 Multiplexing

USOC	Description
QSU24	Multiplexing, DS0 to subrates, per arrangement up to 20, 2.4 Kbps services
QSU48	Multiplexing, DS0 to subrates, per arrangement up to 10, 4.8 Kbps services
QSU96	Multiplexing, DS0 to subrates, per arrangement up to 5, 9.6 Kbps service
MQ3C1	Multiplexing, DS3 to DS1, central office channel interface, 44.736 Mbps capacity per 28 DS1 channel system, LightGate 1 service

12.13 Other

USOC	Description
NRCCN	Non-Recurring charge for Service Concatenation Rearrangement, per OC-3, OC-12 or OC-48 optical rearranged as concantenated or non-concatenated

12.14 Synchronous Systems OC-3

USOC	Description
HFSOC	LightGate Service, basic system, OC-3 local channel, per system with optical customer termination, includes first 1/2 mile
HFSOW	LightGate Service, basic system, OC-3 local channel, per system with optical serving wire center termination, includes first 1/2 mile
HFSO3	LightGate Service, basic system, OC-3 local channel, per electrical system includes first 1/2 air mile

12.15 Synchronous System OC-12

USOC	Description
HFS1C	LightGate Service, basic system, OC-12 local channel, per system with optical customer termination, includes first 1/2 mile
HFS1W	LightGate Service, basic system, OC-12 local channel, per system with optical serving wire center termination, includes first 1/2 mile
HFS12	LightGate Service, basic system, OC-12 local channel, per electrical system, includes first 1/2 air mile

12.16 Synchronous Systems OC-48

USOC	Description
HFS4C	LightGate Service, basic system, OC-48 local channel, per system with optical customer termination, includes first 1/2 mile
HFS4W	LightGate Service, basic system, OC-48 local channel, per system with optical serving wire center termination, includes first 1/2 mile
HFS48	LightGate Service, basic system, OC-48 local channel, per electrical system, includes first 1/2 air mile

12.17 Synchronous Systems STS-1

USOC	Description
HFST1	LightGate Service, basic system, STS1 Local

12.18 Synchronous Systems OC-192

USOC	Description
HFST2	LightGate Service, basic system, OC-192 local channel, per system, includes first 1/2 mile

13. Acronyms

13.1 Acronyms

ACRONYM	DEFINITION
ANSI	American National Standards Institute
APS	Automatic Protection Switching
ASOG	Access Service Ordering Guide
ASR	Access Service Request
BER	Bit Error Ratio
BST	BellSouth Telecommunications
CAR	Carrier Access Request
CNM	Customer Network Management
COCI	Central Office Channel Interface
CP	Customer Premises
CPE	Customer Premises Equipment
CSPP	Channel Service Payment Plan
CUCI	Customer Channel Interface
DD	Due Date
DS1	Digital Signal Level 1- 1.544 Mbps transmission data rate
DS3	Digital Signal Level 3- 44.736 Mbps transmission data rate
EFS	Error Free Seconds
ES	Errored Seconds
FCC	Federal Communications Commission
ICADM	Interconnection Administrative Form/Screen
ICASR	Interconnection Access Service Request Form/Screen
ICSC	Interconnection Carrier Service Center
MSPP	Multi-Service Provisioning Platform
NI	Network Interface
OBF	Ordering Billing Forum
OC-3	Optical Carrier- 3
OC-12	Optical Carrier- 12
OC-48	Optical Carrier- 48
OC-192	Optical Carrier- 192
OCUT	Optical Customer Termination
OSWCT	Optical Serving Wire Center Termination

ACRONYM	DEFINITION
POP	Point of Presence
SAFT I	Separate Alternate Facilities Transport Level 1
SAFT II	Separate Alternate Facilities Transport Level 2
SES	Severely Errored Seconds
SI	Service Inquiry
SLA	Service Level Agreements
SONET	Synchronous Optical Network
SPA	Special Access
SPEC	Service Product and Enhancement Code
STS-1	Synchronous Transport Signal- 1
TPP	Transport Payment Plan
TR	Technical Reference
USOC	Universal Service Order Code
VTA	Variable Term Agreement
WSR	Wireless Service Record