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**BellSouth Interconnection Services**

675 West Peachtree Street  
Atlanta, Georgia 30375

**Carrier Notification  
SN91083840**

Date: November 3, 2003

To: ALL Interconnection Customers

Subject: ALL Interconnection Customers - (Provisioning) – **REVISED:** Multiplexing Location (MuxLoc) Field Required for Access Service Requests (ASR) (Originally posted on October 6, 2003)

As BellSouth is continually working to improve the customer experience, one of the key initiatives is to improve provisioning intervals. One area of focus for this effort is to improve order accuracy. The MuxLoc field on the service specific forms of the ASR is a critical field in generating the appropriate service provisioning for service requests.

Effective November 3, 2003, an edit will be implemented, which will require the appropriate population of the MuxLoc Field on the ASR. If this field is not appropriately populated, the ASR will be rejected.

The affected BellSouth products include Voice Grade, Digital Data Access Service (DDAS), DS1, DS3, ATM, Frame Relay, OCn and Dedicated Switched Access Transport. For your convenience, attached is a Customer Education Package with more details regarding this new edit. This package will be posted to the BellSouth Interconnection Services' Web site by November 10, 2003, at the following address:

[http://interconnection.bellsouth.com/reference\\_library/guides/html/leo.html](http://interconnection.bellsouth.com/reference_library/guides/html/leo.html)

If you have any questions or have additional input on how BellSouth may improve service and provisioning intervals, please contact your BellSouth Account Team Representative.

Sincerely,

**ORIGINAL SIGNED BY JERRY HENDRIX**

Jerry Hendrix – Assistant Vice President  
BellSouth Interconnection Services

# Customer Education Package



Access Service Requests (ASR)

Multiplexing Location

Application

Issue Date 10/3/03





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- **MUXLOC Definition**
  - **Multiplexing Location Identifies the Common Language Location Identification (CLLI) code of the provider central office which provides multiplexing for a service riding a High Capacity service.**
  - **MUX is associated with the Connecting Facility Assignment (CFA) which is one level above the service being ordered.**
  - **Required when utilizing multiplexing services and the ACT field on the Access Service Request (ASR) is “N” or “C”, otherwise optional.**
- **This Customer Education Package and the instructions on how to populate the MUXLOC field does not apply to BellSouth® SMARTGate® service (a.k.a. BellSouth SPA Managed Shared Ring Network) or to BellSouth® SMARTRing® service (a.k.a. BellSouth SPA Dedicated Ring).**
- **CLLI Code consists of the following elements.**
  - **Geographical Code: positions 1 – 4, a municipality, 4 alpha characters**
  - **Geopolitical Code: positions 5-6, designation of a state, 2 alpha characters**
  - **Network Site Code: positions 7-8, designation of a site within a geographical location, 2 alpha or numeric characters**
  - **Network Entity Code: positions 9-11, describes the functional category of equipment, 3 alpha/numeric characters**
    - **Example: ATLNGACSK12**

# MUXLOC Information for Special Access

SERVICE TYPE	NC	SECNCI	REQTYP	MUXLOC	SPEC	EXCEPTIONS
Voice Grade	L+++		S or E	MUXLOC Field on <a href="#">Transport Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> .	N/A	
Digital Data Service Exchange Access Frame Relay	X+++	04CX9	X or V	MUXLOC Field on <a href="#">Transport Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> .	N/A	
Digital Data Service Managed Shared Packet Service	X+++	04CX9	X or V	CFA is not allowed and <b>MUXLOC should be blank</b> .	SPSXXX, SPSEAL, FRSMPS, FRSMPL	
Digital Data Service	X+++		S or E	MUXLOC Field on <a href="#">Transport Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> .	N/A	
Exchange Access Frame Relay IBR	HX++	04CX9	X or V	MUXLOC Field on the <a href="#">Transport Form</a> or the <a href="#">End User Special Access Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> or the <a href="#">End User Special Access Form</a> .	N/A	When NCI = "QB" and CFA = TIE, <b>MUXLOC should be blank</b> .
Managed Shared Frame Relay IBR	HX++	04CX9	X or V	CFA is not allowed and <b>MUXLOC should be blank</b> .	SPSXXX, SPSEAL, FRSMPS, FRSMPL	
DS1	HC++			MUXLOC Field on <a href="#">Transport Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> .		1. When NCI = "QB" and CFA = TIE, <b>MUXLOC should be blank</b> . 2. When CFA is LightGate SONET (FNI ends in a 'Q'), and the CFA NC Code ends in "E", and both location CLLI Codes of the DS1 match the CLLI Codes of the CFA, then the <b>MUXLOC should be blank</b> .
DS1 Exchange Access Frame Relay	HC++	04CX9	X or V	MUXLOC Field on <a href="#">Transport Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> .	N/A	When NCI = "QB" and CFA = TIE, <b>MUXLOC should be blank</b> .
DS1 Managed Shared Frame Relay and ATM	HC++	04CX9	X or V	CFA is not allowed and <b>MUXLOC should be blank</b> .	SPSXXX, SPSEAL, FRSMPS, FRSMPL	
DS3 Exchange Access MultiLink Frame Relay	YH++	04CX6.ML3 Note 1	X or V Note 1	MUXLOC Field on the <a href="#">Transport Form</a> or the <a href="#">End User Special Access Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> or the <a href="#">End User Special Access Form</a> .	N/A	When NCI = "QB" and CFA = TIE, <b>MUXLOC should be blank</b> .

# MUXLOC Information for Special Access (cont.)

SERVICE TYPE	NC	SECNCI	REQTYP	MUXLOC	SPEC	EXCEPTIONS
DS3 Managed Shared Packet ATM IMA	YH++	04CX9	X or V	CFA is not allowed and <b>MUXLOC should be blank.</b>	SPSXXX, SPSEAL, FRSMPS, FRSMPL	
DS3 Exchange Access Frame Relay and ATM Subrate T3	YH++	04CX6.3	X or V	MUXLOC Field on the <a href="#">Transport Form</a> or the <a href="#">End User Special Access Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> or the <a href="#">End User Special Access Form</a> .	N/A	When NCI = "QB" and CFA = TIE, <b>MUXLOC should be blank.</b>
DS3 Managed Shared Frame Relay and ATM Subrate T3	YH++	04CX6.3	X or V	CFA is not allowed and <b>MUXLOC should be blank.</b>	SPSXXX, SPSEAL, FRSMPS, FRSMPL	
DS3 Managed Shared Packet Frame Relay and ATM	HF++	04CX6 or 04CX6.3	X or V	CFA is not allowed and <b>MUXLOC should be blank.</b>	SPSXXX, SPSEAL, FRSMPS, FRSMPL	
DS3, LightGate, (terminating as Frame Relay or ATM, only)	HF++	04CX6 or 04CX6.3	X or V	MUXLOC Field on <a href="#">Transport Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> .	Completed with 1st character as "L"	<ol style="list-style-type: none"> <li>When NCI = "QB" and CFA = TIE, <b>MUXLOC should be blank.</b></li> <li>When CFA "A" and "Z" CLLI Codes are the same 11 characters, and FNI ends in a "Q" or "H", <b>MUXLOC</b> should be the SWC for the "A" and "Z" CLLI Code of the CFA.</li> </ol>
DS3, LightGate	HF++			MUXLOC Field on <a href="#">Transport Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> .	Completed with 1st character as "L"	<ol style="list-style-type: none"> <li>When NCI = "QB" and CFA = TIE, <b>MUXLOC should be blank.</b></li> <li>When CFA "A" and "Z" CLLI Codes are the same 11 characters, and FNI ends in a "Q" or "H", <b>MUXLOC</b> should be the SWC for the "A" and "Z" CLLI Code of the CFA.</li> </ol>
STS1, OC-3, OC-12, OC-48, OC-192 SONET	Jl++, OB++, OD++, OF++, OG++			MUXLOC Field on <a href="#">Transport Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> .	Completed with "SNT"	<ol style="list-style-type: none"> <li>When CFA "A" and "Z" CLLI Codes are the same 11 characters, and FNI ends in a "Q" or "H", <b>MUXLOC</b> should be the SWC for the "A" and "Z" CLLI Code of the CFA.</li> <li>When CFA is LightGate SONET (FNI ends in a 'Q'), and the CFA NC Code ends in "E", and both location CLLI Codes of the DS3 match the CLLI codes of the CFA, then the <b>MUXLOC should be blank.</b></li> </ol>



## MUXLOC Information for Special Access (cont.)

SERVICE TYPE	NC	SECNCI	REQTYP	MUXLOC	SPEC
OC-3, OC-12 SONET (ordered as ATM terminations)	OB+6, OD+6	02CXF	X or V	MUXLOC Field on <a href="#">Transport Form</a> should be populated by the <b>Customer</b> with the C.O. CLLI of the CFA from the CFA Field on the <a href="#">Transport Form</a> .	Completed with "SNT"
OC-3, OC-12 SONET Managed Shard Packet ATM	OB+6, OD+6	02CXF	X or V	CFA is not allowed and <b>MUXLOC should be blank.</b>	SPSXXX, SPSEAL, FRSMPS, FRSMPL

Note 1 -- using the [REQTYP](#) of 'X or V' and the [SECNCI](#) of '04CX6.ML3' is the only way for BellSouth to identify this service as

# MUXLOC Information for Switched Access

SERVICE					
TYPE	REQTYP	NC	LTP	NCI	MUXLOC
DS1	SD	HC++	is not BLANK	04DS9 or 04QB9	should be <b>BLANK</b>
DS1	SD	HC++	is not BLANK	04DS6 or 04QB6 or 04SOF	<b>CUSTOMER</b> TO POPULATE WITH THE CO CLLI OF THE CFA FROM THE CFA FIELD ON THE <b>TRANSPORT REQUEST FORM</b>
SERVICE					
TYPE	REQTYP	NC1	LTP	NCI	MUXLOC
DS1	MD	HC++	is not BLANK	04DS9 or 04QB9	should be <b>BLANK</b>
DS1	MD	HC++	is not BLANK	04DS6 or 04QB6 or 04SOF	<b>CUSTOMER</b> TO POPULATE WITH THE CO CLLI OF THE CFA FROM THE CFA FIELD ON THE <b>TRUNKING FORM</b>





# ASR Example of the MUXLOC Field

Place the C.O. CLLI from the CFA field into the MUXLOC field.

```
ASR 03259xxxxxx OWNER ICSC  ORD COxxxxxx  JEP  STATUS F R T ACA
REQTYP SE ACT N CCNA XXX PON xxxxxxxxxxxx  VER 01 RPON
ECCKT 38/HCGS/xxxxxx/ /SB                FMT  LTERM      ASI Y
```

\*\*\*\*\* CIRCUIT DETAIL \*\*\*\*\*

```
NC HCE- NCI 04DS6.44  TLV          SECNCI 04DU9.1SN
SECTLV          NSIM SR  S25 A    ER SSS ATN
TRF MST HVP ISDN SEQ  OF  CKLT      NSL
CFAU  CFA 4002 /T3Z /28 /ATLNGAxxxxxx/RVDLGAMAK11 DIR CPT
SCFA          SDIR  MUXLOC RVDLGAMA
HBAN 770 N01-xxxx  PRIADM      CLK NVC  PSPEED    LMP N/U
ZLG BSC ETET  GETO  GBTN
CCEA
WACD1
WACD2
RMKS ORDER 1 DS1 W/B8ZS-ESF CODING AND FRAMING
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