Customer Education Package

AT&T 9-State Region

Access Service Requests (ASR)

Multiplexing Location

Application

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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 Transport Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form.	N/A	
Digital Data Service Exchange Access Frame Relay	X+++	04CX9	X or V	MUXLOC Field on Transport Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form.	FRSPVC (Required only for Regional InterLATA PVC Extensions)	
Digital Data Service Managed Shared Packet Service	X+++	04CX9	S or E	CFA is not allowed and MUXLOC should be blank. The only allowable CFA is Collocation and MUXLOC should be blank.	SPSXXX, SPSEAL, FRSMPS, FRSMPL SPSPVC	When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank.
Digital Data Service	X+++			MUXLOC Field on Transport Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form.	N/A	

SERVICE TYPE	NC	SECNCI	REQTYP	MUXLOC	SPEC	EXCEPTIONS
Exchange Access Frame Relay IBR	HX++	04CX9	X or V	MUXLOC Field on the Transport Form or the End User Special Access Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form or the End User Special Access Form	N/A FRSPVC (Required only for Regional InterLATA PVC Extensions)	When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank.
Managed Shared Frame Relay IBR	HX++	04CX9	X or V	The only allowable CFA is Collocation and MUXLOC should be blank.	SPSXXX SPSEAL FRSMPS FRSMPL SPSPVC	When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank.
DS1	HC++			MUXLOC Field on Transport Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form.		1. When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank. 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 MUXLOC should be blank.

SERVICE TYPE	NC	SECNCI	REQTYP	MUXLOC	SPEC	EXCEPTIONS
DS1 Exchange Access Frame Relay	HC++	04CX9	X or V	MUXLOC Field on Transport Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form.	N/A FRSPVC (Required only for Regional InterLATA PVC Extensions)	When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank.
DS1 Exchange Access ATM	HC+6	04CX9	X or V	MUXLOC Field on Transport Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form.	N/A ATMPVC (Required only for Regional InterLATA PVC Extensions)	When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank.
DS1 Managed Shared Frame Relay and ATM	HC++	04CX9	X or V	The only allowable CFA is Collocation and and MUXLOC should be blank.	SPSXXX SPSEAL FRSMPS FRSMPL SPSPVC	When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank.
DS3 Exchange Access MultiLink Frame Relay	YH++	04CX6.ML3 Note 1	X or V	MUXLOC Field on the Transport Form or the End User Special Access Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form or the End User Special Access Form	N/A	When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank.

SERVICE TYPE	NC	SECNCI	REQTYP	MUXLOC	SPEC	EXCEPTIONS
DS3 Managed Shared Packet MultiLink Frame Relay	YH++	04CX6.ML3 Note 1	X or V	The only allowable CFA is Collocation and MUXLOC should be blank.	SPSXXX SPSEAL FRSMPS FRSMPL SPSPVC	When NCI = "QB" and CFA = "T3TIE", MUXLOC should be blank.
DS3 Exchange Access ATM IMA	YH++	04CX9	X or V	MUXLOC Field on the Transport Form or the End User Special Access Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form or the End User Special Access Form	N/A ATMPVC (Required only for Regional InterLATA PVC Extensions)	When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank. The CFAU Field on the Transport Form or the End User Special Access Form should be Y.
DS3 Managed Shared Packet ATM IMA	YH++	04CX9	X or V	The only allowable CFA is Collocation and MUXLOC should be blank.	SPSXXX SPSEAL FRSMPS FRSMPL SPSPVC	When NCI = "QB" and CFA = "T3TIE", MUXLOC should be blank.

SERVICE TYPE	NC	SECNCI	REQTYP	MUXLOC	SPEC	EXCEPTIONS
DS3 Exchange Access Frame Relay and ATM SubrateT3	YH++	04CX6.3	X or V	MUXLOC Field on the Transport Form or the End User Special Access Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form or the End User Special Access Form	N/A FRSPVC ATMPVC (Both are required when requesting Regional InterLATA PVC Extensions Exchange Access ATM or Frame Relay	When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank.
DS3 Managed Shared Frame Relay and ATM Subrate T3	YH++	04CX6.3	X or V	The only allowable CFA is Collocation and MUXLOC should be blank.	SPSXXX SPSEAL FRSMPS FRSMPL SPSPVC	When NCI = "QB" and CFA = "T3TIE", MUXLOC should be blank.
DS3 Managed Shared Packet Frame Relay and ATM	HF++	04CX6 or 04CX6.3	X or V	The only allowable CFA is Collocation and MUXLOC should be blank.	SPSXXX SPSEAL FRSMPS FRSMPL SPSPVC	When NCI = "QB" and CFA = "T3TIE", MUXLOC should be blank.

SERVICE TYPE	NC	SECNCI	REQTYP	MUXLOC	SPEC	EXCEPTIONS
DS3, LightGate (terminating as Frame Relay or ATM, only)	HF++	04CX6 04CX6.3	X or V	MUXLOC Field on Transport Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form.	Completed with 1st character as "L" FRSPVC ATMPVC (Both are required when requesting Regional InterLATA PVC Extensions Exchange Access ATM or Frame Relay	1. When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank. 2. When CFA "A" and "Z" CLLI Codes are the same 11 characters, and FNI ends in a "Q" or "H", MUXLOC should be the SWC for the "A" and "Z" CLLI Code of the CFA. 3. 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 MUXLOC should be blank.

SERVICE TYPE	NC	SECNCI	REQTYP	MUXLOC	SPEC	EXCEPTIONS
DS3, LightGate	HF++			MUXLOC Field on Transport Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form.	Completed with 1st character as "L"	1. When NCI = "QB" and CFA contains "TIE", MUXLOC should be blank. 2. When CFA "A" and "Z" CLLI Codes are the same 11 characters, and FNI ends in a "Q" or "H", MUXLOC should be the SWC for the "A" and "Z" CLLI Code of the CFA. 3. 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 MUXLOC should be blank.
STS1 OC-3 OC-12 OC-48 OC-192 SONET	JI++ OB++ OD++ OF++ OG++			MUXLOC Field on Transport Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form.	Completed with "SNT"	1. When CFA "A" and "Z" CLLI Codes are the same 11 characters, and FNI ends in a "Q" or "H", MUXLOC should be the SWC for the "A" and "Z" CLLI Code of the CFA. 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 SONET match the CLLI Codes of the CFA, then the MUXLOC should be blank

SERVICE TYPE	NC	SECNCI	REQTYP	MUXLOC	SPEC	EXCEPTIONS
OC-3, OC-12 SONET (ordered as ATM terminations)	OB+6 OD+6	02CXF	X or V	MUXLOC Field on Transport Form should be populated by the Customer with the C.O. CLLI of the CFA from the CFA Field on the Transport Form.	Completed with "SNT" ATMPVC (Required when ordering Regional InterLATA PVC Extensions)	1. When NCI = "QB" and CFA begins with "PF" or "VF", MUXLOC should be blank. 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 SONET match the CLLI Codes of the CFA, then the MUXLOC should be blank.
OC-3, OC-12 SONET Managed Shard Packet	OB+6 OD+6	02CXF	X or V	The only allowable CFA is Collocation and MUXLOC should be blank.	SPSXXX SPSEAL FRSMPS FRSMPL SPSPVC	When NCI = "QB" and CFA begins with PF or VF, MUXLOC should be blank.
Note 1 -- using the REQTYP of "X" or "V" and the SECNCI of "04CX6.ML3" is the only way for AT&T 9-State to identify this service as MultiLink instead of SubRate T3.						

MUXLOC INFORMATION FOR SWITCHED ACCESS

SERVICE TYPE	REQTYP	NC	LTP	NCI	MUXLOC
DS1	SD	HC++	is not BLANK	04DS9 04QB9	should be **BLANK**
DS1	SD	HC++	is not BLANK	04DS6 04QB6 04SOF	Customer to populate with the CO CLLI of the CFA from the CFA field on the Transport Form
SERVICE TYPE	**REQTYP**	**NC**	**LTP**	**NCI**	**MUXLOC**
DS1	MD	HC++	is not BLANK	04DS9 04QB9	should be **BLANK**
DS1	MD	HC++	is not BLANK	04DS6 04QB6 04SOF	Customer to populate with the CO CLLI of the CFA from the CFA field on the Trunking Form

COLLOCATION CFA EXAMPLES:

- PFATX/LGSS/1-2/BRHMALMT/BRHMALMTXXX
- 101/T1TIE/1/BRHMALHW/BRHMALHWXXX
- 70042 /T3TIE/ 1/CHTGTNNS/CHTGTNNSXXX

ASR EXAMPLE OF THE MUXLOC FIELD

ASR 03259xxxxxx OWNER ICSC ORD COxxxxxx JEP STATUS F R T ACA
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
REQTYP SE ACT N CCNA XXX PON xxxxxxxxxx VER 01 RPON
SCFA SDIR **MUXLOC** **RVDLGAMAK11**
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