

Information Package
Interconnection Services
BellSouth® 9-1-1 PBX Locate Service
for
Facility Based CLEC

APRIL, 2005

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Introduction and Scope

This Product Information Package is intended to provide Facility Based CLECs a product description and general ordering information specific to the product described herein.

Detailed ordering guidelines are provided in documents located on the BellSouth Interconnection Web site.

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

Please contact your BellSouth Local Contract Manager, if you have any questions about the information contained herein.

Revisions

Revision 1 - Date

Product Description

BellSouth® 9-1-1 PBX Locate Service provides wholesale customers the ability to offer E9-1-1 service that identifies the physical location of the Private Branch Exchange (PBX) caller and the station telephone number when a 9-1-1 call is made.

The service can be purchased by facility based CLECs via their Interconnection Agreement therefore, giving them the ability to offer to their PBX DID and PRI customers the same service as BellSouth's 9-1-1 PinPoint® Service.

Service Description

PBX Locate service has two components: transport and database. The transport component, PBX Locate Transport Component, provides a dedicated trunk path from a PBX switch to a 9-1-1 tandem office that selectively routes the 9-1-1 calls to the appropriate Public Safety Answering Point (PSAP). The database component, PBX Locate Database Capability, allows the input of corresponding PBX station telephone number and location information into the Automatic Location Identification (ALI) database by the CLEC's end user customer or CLEC's end user database management agent (DMA).

PBX Locate Transport Component

A minimum of 2 private, dedicated 9-1-1 trunks are required between the PBX and E9-1-1 tandem as described in TR73576.

- From the PBX to the Point of Interface (POI), the dedicated trunks shall be, at a minimum, 2-wire analog voice grade loop with reverse battery signaling. The CLEC is responsible for connectivity between the end user's PBX and the CLEC's switch or POP location.
- From the POI to the tandem, dedicated trunks shall be, at a minimum, DSO level message trunks configured as part of a digital interface (delivered over a customer purchased DS1 facility that hands off at a DS1 or higher level digital or optical interface). Wholesale customers can purchase PBX Locate transport component to provision private dedicated trunks between the BellSouth 9-1-1 Tandem and their Point of Interface (POI)
- In all cases, the PBX must be capable of sending the calling station's Direct Inward Dial (DID) telephone number to the BellSouth E9-1-1 network in a specified Multi-frequency (MF) Address Signaling Protocol
- The PBX equipment must be capable of transmitting Automatic Number Identification (ANI)
- If the PBX supports Primary Rate ISDN (PRI) and the calling stations are DID numbers, then the 9-1-1 call can be transmitted using the caller ID of the PRI thus eliminating the need for PBX Locate Transport component

Features and Benefits

- Provides a dedicated alternative to sending critical 9-1-1 calls across the network

PBX Locate Database Capability

- Wholesale end user customers can load and maintain, via a web-based application or through batch updates, individual PBX station telephone numbers and corresponding address/location data in the Automatic Location Information (ALI) Database
- The PBX station information is initiated and maintained by the CLEC PBX End User (EU) or their Database Management Agent (DMA)
- The CLEC PBX EU or DMA is responsible for timely updates to PBX station location records as they are added, moved, changed and or deleted
- BellSouth's Authorized 9-1-1 Vendor, will provide application support to the CLEC, CLEC PBX EU or DMA

Features and Benefits

- Offered as an aid in address identification and/or handling of 9-1-1 calls made from a PBX station location
- Allows the CLEC PBX EU to manage his own station address and telephone number data on an as needed basis without having to use the Service Order Inventory Process (SOIR)
- The CLEC PBX EU has direct control over and responsibility for their data
 - Provides a means for timely, accurate and up-to-date PBX station information including additions, moves, changes and deletions
 - Allows for correction of error conditions resulting from the submission of invalid telephone number and address/location data
 - Permits direct coordination with- BellSouth's Authorized E911 database vendor.
- Provides protection by assigning the "P" flag to PBX station records added. The "P" flag is assigned to all PBX Locate records when they are written to the E9-1-1 database management system. The purpose of the "P" flag is to protect the telephone number record from being overwritten by the standard service order process. Note: Once a telephone number record within the E9-1-1 database is assigned a "P" flag there is no automated mechanism for removing the flag from the record.

Service Availability Guidelines

This service is available in nine states: Alabama, Georgia, Florida, Kentucky, Mississippi, Louisiana, North Carolina, South Carolina and Tennessee. Contact your BellSouth Local Support Manager for more information.

Technical Specifications

General

The general technical requirements for this service can be found in Technical Reference (TR) 73576. The TR is available in total at: http://interconnection.bellsouth.com/guides/html/tech_ref.html. The reference describes network interface specifications, transmission channel information, transmission performance parameters and interface and signaling protocol requirements.

Ordering, Provisioning, Testing and Maintenance

Pre-Ordering Considerations

Offered to all BellSouth wholesale customers where facilities are available and pursuant to the rates, terms and conditions in the applicable agreement. Customers should contact their BellSouth Local Contract Manager regarding any pre-ordering questions applicable to this service.

If ordering the PBX Locate Transport Component and multiple NPAs are involved, the customer must order a different trunk group for each NPA.

In order to ensure that 9-1-1 calls are routed correctly with the correct location information, the CLEC is responsible for ensuring that PBX Locate Service is provisioned in such a way that the subscriber's PBX station numbers do not fall outside the boundary of the E9-1-1 tandem serving the physical address of the PBX location.

SS7 Interconnection

SS7 trunking cannot be used for this product.

Using an "Adjunct Box"

How does an "Adjunct Box" interface with the PBX?

- The adjunct box provider should be the source for specific information about connectivity to the End User's PBX. BellSouth does not provide this equipment. There are several vendors available and we do not recommend one vendor over another.

When should an "Adjunct Box" be used with PBX Locate Service?

- DID numbers must be presented to the 9-1-1 network in order to route the call and query the 9-1-1 database. If a PBX has extensions or phantom numbers with out dial capability, an "Adjunct Box" could use Digit Manipulation to convert the Calling Party Number to a valid DID number. This allows for an acceptable 7-digit (DID) number to be out pulsed via Multi-Frequency (MF) signaling to a 9-1-1 Tandem office for routing to the correct Public Safety Answering Point (PSAP), along with the caller's voice.
- An additional benefit of the "Adjunct Box" is on site notification. If the customer has a 24 hour x 7 operation, limited access buildings or a security department/desk, they may want the feature "On Site Notification" of 9-1-1 calls to a printer or alphanumeric paging device.

What is required to connect the "Adjunct Box" to the 9-1-1 tandem?

- If an "Adjunct Box" is being used, PBX Locate Service Transport component must be installed to connect the "Adjunct Box" to the 9-1-1 tandem.

Ordering General

This product is offered through your ICS Interconnection Agreement. Customers ordering this product may request it by completing the required service request forms and submitting them to the appropriate ordering center. When ordering the transport component, customers will complete and submit an Access Service Request (ASR). When ordering the database capability, customers will complete a 9-1-1 PBX Locate CLEC Ordering Document (RF1187) and forward it to the BellSouth Complex Resale Support Group (CRSG).

Customers must have one of two basic options to provision PBX Locate Service:

(1) PBX Locate Database Capability with PRI

(2) PBX Locate Database Capability with PBX Locate Transport Component

PBX Locate Service using PRI

Customers can use existing PRI facilities to deliver the 9-1-1 call if the PRI is capable of sending DID telephone numbers in a specified MF signaling protocol along with the caller's voice. The CLEC must also subscribe to the PBX Locate Database Capability to load and transmit station record information to the ALI database.

PBX Locate Service using PBX Locate Transport Component

Customers will order PBX Locate Transport component if they are not using PRI, if they desire a separate trunk group dedicated to 9-1-1 calls or if an "Adjunct Box" is used. The CLEC may also subscribe to the PBX Locate Database Capability to load and transmit station record information to the ALI database.

The customer is responsible for securing trunks from the PBX to the POI. If using existing facilities, customers must ensure that facilities meet requirements as documented in TR73576.

To complete the trunk path from the POI to the tandem, the customer will purchase a DS1 facility that hands off at a DS1 or higher level digital or optical interface and PBX Locate Transport Component, a dedicated trunk that shall be, at a minimum, DSO level message trunks configured as part of a digital interface. Wholesale customers will purchase PBX Locate Transport Component by specifying NC code SDUO with Modifier ESJPP.

PBX Locate Service using PBX Locate Transport Component Only

CLEC may order the PBX Locate Transport component as a stand-alone service via the ASR process when the PBX Station data information is to be provided by the CLEC directly to the ALI database via the normal Service Order Interface Record (SOIR) process.

The customer is responsible for securing trunks from the PBX to the POI. If using existing facilities, customers must ensure that facilities meet requirements as documented in TR73576.

To complete the trunk path from the POI to the tandem, the customer will purchase a DS1 facility that hands off at a DS1 or higher level digital or optical interface and PBX Locate Transport Component, a dedicated trunk that shall be, at a minimum, DSO level message trunks configured as

part of a digital interface. Wholesale customers will purchase PBX Locate Transport Component by specifying NC code SDUO with Modifier ESJPP.

Customers should refer to Appendix A, B and C for USOCS, BCS, Modifier, NC/NCI codes and a diagram describing the transport component of this service.

Customers can access the following web sites to assist in ordering:

1. Technical References, 9-1-1 PBX Locate Database Capability Ordering Form, Local Ordering Handbook and Instructions (Tools, Forms and Reports):
<http://interconnection.bellsouth.com/>
2. Standard Interconnection Agreement (search for BCS):
http://interconnection.bellsouth.com/become_a_clec/html/ics_agreement.html
3. CLEC Local Ordering Guide, Interfacing with the CRSG, Issue Resolution Guide for Access Customers (submitting ASR) and CLEC Information Packages (search for BCS):
<http://interconnection.bellsouth.com/guides/html/>
4. Complex Resale Support Group (CRSG) Link
www.interconnection.bellsouth.com/centers/html/crsg.html

Required Forms

The following form is required for 9-1-1 PBX Locate Service:

- RF1187 9-1-1 PBX Locate Service Ordering Document

Form RF1187 and instructions can be found on the Interconnection web site at:

<http://interconnection.bellsouth.com/forms/index.html>

Information regarding completing other forms such as ASR, LSR, EU and PRI, is contained in the BellSouth Local Ordering Guides.

Required Fields on Forms

CLECs must provide the default ESN on the 9-1-1 PBX Locate Service Ordering Document. Customers can contact their county or city 9-1-1 Coordinator for this information. Line by line instructions are provided with the form.

ASR, LSR, EU, and PRI Ordering Document fields should be populated as required. Refer to the BellSouth Local Ordering Guides for details on completing these documents.

Provisioning

PBX Locate Transport Component

BellSouth's Carrier Interconnection Switching Center (CISC) will be the point of contact for the provisioning of this component. The contact number for CISC Provisioning is 1-800-482-1675.

When at all possible, please utilize the BellSouth Web Based Circuit Provisioning Status System Systems for getting a status on PF or MA orders.

PBX Locate Database Capability

The completion of a PBX Locate Database Capability order is dependent upon the customer's submission of the initial load file to the BellSouth Authorized E911 Vendor and notification from said vendor to BellSouth that the initial load is complete. BellSouth Authorized E911 Vendor's standard intervals are as follows:

- ✓ New request: 30 DAYS
- ✓ Add End User: 30 DAYS
- ✓ Port: 12 days
- ✓ Disconnect and remove profile : 12 days

If a database capability order is over 30 days old, customers are required to initiate a due date change to ensure that the order will remain in the system. If the due date is not changed, the order will automatically complete. Customers should refer to the Local Ordering Handbook (LOH) for guidelines regarding requesting due date changes and standard intervals.

Testing

Installation and testing of transport component must be completed prior to the effective date shown on RF1187 database component request shown in the BellSouth Authorized E911 Vendor end user customer profile.

The CLEC, CLEC PBX EU and PSAP are responsible for testing 9-1-1 calls containing PBX station data. The CLEC, CLEC PBX EU is expected to coordinate testing with BellSouth Authorized E911 Vendor and the PSAP.

- CLEC must contact PSAP and give notice before initial load file is sent
 - After the telephone records have passed all data validations, the PBX station records will post to the E9-1-1 database
 - Record postings to the E9-1-1 database are transmitted to the regional ALI Nodes on a regular basis throughout the day, seven days a week
- Once initial load is complete, the database is live
- Important questions are: Is CLEC ready? Has CLEC talked with BellSouth Authorized E911 Vendor? Has CLEC coordinated test with PSAP?

Maintenance

The CISC will be the operations center support for the transport component of this product when maintenance is required. When the CLEC determines a trouble with the facilities or any phone numbers associated with the facilities, they will contact the CISC Maintenance with the following information:

1. Exchange Company Circuit ID (ECCKT)
2. Customer Circuit Reference (CKR)
3. Description of trouble

The number to contact CISC Maintenance is 1-800-482-1675.

When the CLEC determines an error with the database information associated with the telephone number, they must contact BellSouth Authorized E911 database vendor. The BellSouth E911 Authorized Vendor's contact number will be provided in the customer guide provided to the CLEC or the PBX end user.

Areas of Responsibility

BellSouth

- Notifies BellSouth Authorized E911 Vendor when a CLEC requests new 9-1-1 PBX Locate service or changes Profile Information
- Works with BellSouth Authorized E911 Vendor making sure BellSouth customers needs are adequately met
- Coordinates with CLEC to ensure provisioning and maintenance of transport component of the service

CLEC

- Submits ordering documents to BellSouth to establish, change or delete PBX Locate database station ranges or establish new PBX Locate Service Transport component
- Coordinates with county or municipality E9-1-1 Coordinator to establish default (backup) PSAP location for routing 9-1-1 calls if the normal PSAP is unable to receive call and provides default PSAP name and Emergency Service Number (ESN) to BellSouth
- Assists the PBX End User in completing initial database loads and updates
- Become familiar with specific network interfaces required and other information in Interconnection Agreement and TR73576
- Contacts BellSouth CWINS and coordinates testing, provisioning and maintenance of service

CLEC End User

- Ensures all station telephone numbers have valid MSAG addresses

- Submits and maintains individual PBX station telephone number data to BellSouth Authorized E911 Vendor and periodic updates to ensure database is loaded, correct and up to date
- Become familiar with specific network interfaces required and other information in TR73576 and ensure terminal equipment is compatible with local channels specifications as described there
- Ensure the PBX switch is capable of out-pulsing the number or an adjunct box has been installed
- Have available a personal computer loaded with the required software upgrades and modem in order to upload station information to the E9-1-1 database
- Perform operational tests at initial turn-up and thereafter as required to determine whether the service is functioning properly for its use

BellSouth Authorized E911 Vendor

- Sets up new account or makes changes in existing Profile
- Notifies appropriate BellSouth representative when CLEC is successfully using 9-1-1 PBX Locate Service
- Coordinates logons, IDs, and passwords for the CLEC or the CLEC's PBX end user
- Ensures loading of the initial load file
- Provides follow up and a single point of contact for new customer ALI database problems and/or concerns.

Billing Information

General

Charges associated with this product are billed in both CRIS and CABS. The rate elements apply as described:

9-1-1 PBX Locate Service Database Capability- Billed in CRIS

Nonrecurring – per Site Setup, per CLEC EU Account

Nonrecurring – Porting Charge per CLEC EU Account

Nonrecurring – Subsequent to add, change or delete TNs

Nonrecurring - Service order charge

Recurring – Monthly Maintenance, per record

Recurring – Monthly Service Support

Note: Instead of the usual SOMAN charge, customers will see a unique USOC billing a Service Order Charge. This service order charge is equivalent to SOMAN rates for each state.

9-1-1 PBX Locate Service Transport Component – Billed in CABS

Nonrecurring – Trunk Charge per DSO

Appendix A – BCS/USOCs

PBX Locate Database Capability (see Interconnection Agreement Attachment 2)

Basic Class of Service 9PBDC

USOC 9PB EU – Service Establishment per CLEC per End User Account (NRC)

USOC 9PB TN – Changes to TN range or Customer Profile (NRC)

USOC 9PB MM – Per Telephone Number (Monthly)

USOC 9PB PC – Change Company (Service Provider) ID (NRC)

USOC 9PB MR – PBX Locate Service Support per CLEC (Monthly)

USOC 9PB SC - Service Order Charge* (NRC)

*The Service Order Charge will take the place of SOMAN

PBX Locate Transport Component (see Interconnection Agreement Attachment 3 – Exhibit A)

Category – Local Interconnection – Trunk Charge

Rate Elements: Installation Trunk Side – per DS0

Basic Class of Service - OHD

USOC TPP6X – Installation Trunk Side Service per DSO (for DS1)

USOC TPP9X – Installation Trunk Side Service per DSO (for DS3)

Appendix B – Modifier and NCI codes

PBX Locate Transport Component (see Interconnection Agreement Attachment 3)

Modifier = ESJPP

NC/NCI Codes

DESCRIPTION	NCI
To POP, 911 tndm in SWC of POP, CFA of DS1 muxed in SWC of POP	04DS9.\$\$
To POP, 911 tndm in FSO of POP, CFA of DS1 muxed in SWC of POP	04DS9.\$\$
To POP, 911 tndm in FSO of POP, CFA of DS1 muxed in FSO of POP	04DS9.\$\$
Also 1-2, 1-3, and 1-5 the DS1 could ride a DS3 or ST01 muxed in SWC or FSO	04DS6.44\$
DS3 or ST01 may ride optical facility handoff	02SOF.X or 04SOF.X
To EU, 911 tndm in SWC of EU, CFA of DS1 muxed in SWC of EU	04DS9.\$\$
To EU, 911 tndm in FSO of EU, CFA of DS1 muxed in SWC of EU	04DS9.\$\$
To EU, 911 tndm in FSO of EU, CFA of DS1 muxed in FSO of EU	04DS9.\$\$
Also 1-2, 1-3, and 1-5 the DS1 could ride a DS3 or ST01 muxed in SWC or EU	04DS6.44\$
DS3 or ST01 in 2-x may ride optical facility handoff	02SOF.X or 04SOF.X
To COLLOCATION, 911 tndm in COLLOCATION CO, CFA of DS1 muxed in COLLOCATION CO	04QB9.11
To COLLOCATION, 911 tndm in FSO, CFA of DS1 muxed in COLLOCATION CO	04QB9.11
To COLLOCATION, 911 tndm in FSO of COLLOCATION, CFA of DS1 muxed in FSO of COLLOCATION	04QB9.11
Also 1-2, 1-3, and 1-5 the DS1 could ride a DS3 or ST01	04QB6.33

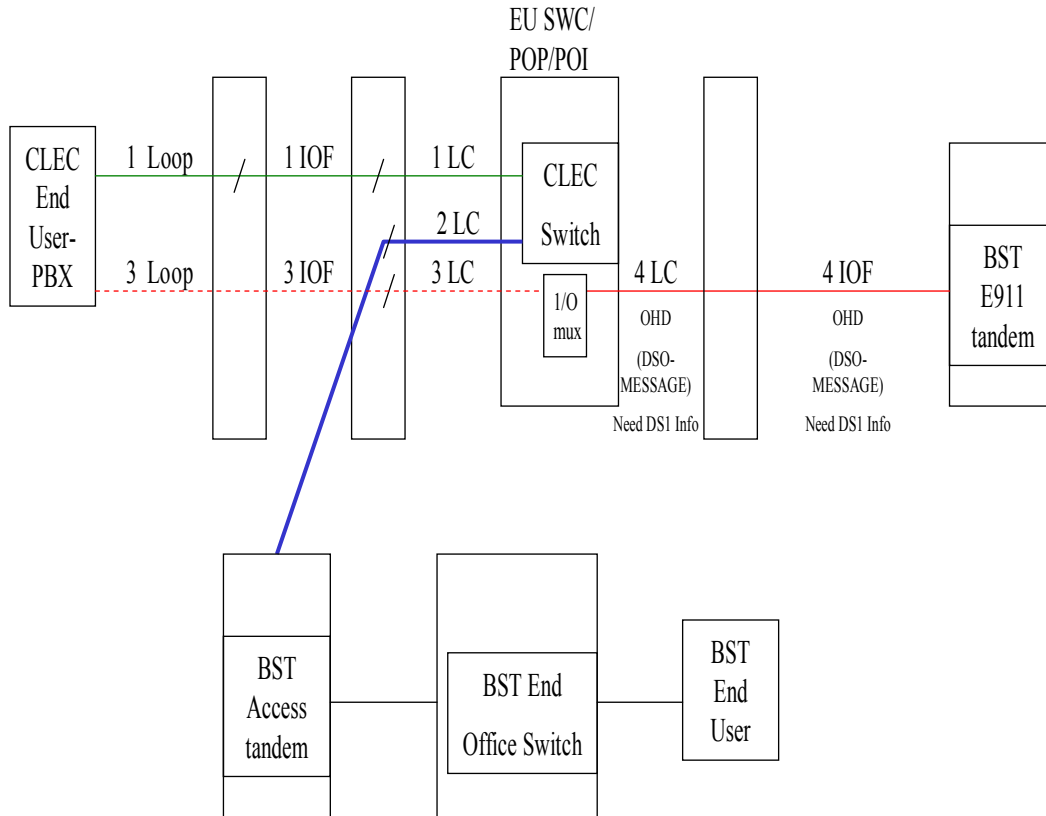
muxed in SWC or FSO	
DS3 or ST01 in 3-x may ride optical facility handoff	02QBF.LL or 04QBF.LL



Appendix C – Transport Component Diagram

9-1-1 PBX Locate Transport Component

10/18/04



1. Green - Loop (UEA) Attachment 2, Inter-Office Facility IOF (U1TVX) Attachment 2, Local Channel LC (ULDVX) Attachment 2, provide local switching and dial tone to its end user.
2. Blue - LC (OHM, OH1) Attachment 3, Inter-Office Facility IOF (OHM, OH1) Attachment 3, gains access to BST network. Use this to receive and send calls to BST end users.
3. Red dashed - CLEC uses existing Loop, IOF and LC or buys Loop (UEA) Attachment 2, IOF (U1TVX) Attachment 2, LC (ULDVX) Attachment 2, in order to provide dedicated loop for PBX Locate service. If existing, must meet requirements as per TR73576.
4. **9-1-1 PBX Locate Transport Component** - CLEC buys red solid Local Interconnection LI, Trunk Charge (OHD) from Attachment 3, NC=SDUO, in order to gain access to BST E9-1-1 tandem. CLEC is responsible for securing facilities from their PBX location to POI to 9-1-1 tandem.

Notes: The Basic Class of Service (BCS) for the Loop and transport (IOF and Local Channel) of 1 and 3 if ordered from Attachment 2 as a Combination today would be UNCVX. UEA and U1TVX are correct BCS if ordered as individual elements. If the network elements are combined without collocation, then the BCS is UNCVX. If they are combined within collocation the BCS is U1TVX.

Post TRO, the LC may not be a UNE, the BCS is a Special Access (SPA) BCS and would always be a SPA element purchased from the access tariff. This component may be from the CLEC POP to a collocation space within the POP SWC or co-mingled with a UNE IOF. Customers will contact their Local Contract Manager for assistance.

How does it work? CLEC end user goes off hook, draws dial tone from PBX, dials 911 and PBX routes call to BST E911 switch.

Appendix D – Acronyms

ACRONYMS

Acronyms	Definition
2W	2-wire
4W	4-wire
ACNA	Access Carrier Name
AFIG	Address and Facility Inventory Group
ALI	Automatic Location Identification
ANI	Automatic Number Identification
ASR	Access Service Request
BFR	Bona Fide Request
BCS	Basic Class of Service
CCC	Collocation Cross-Connect
CCM	Circuit Capacity Management
CDD	Customer Designated Date
CI	Customer installation
CIC	Carrier Identification Code
CLEC	Competitive Local Exchange Carrier
CLUB	Customized Large User Bill
COCI	Central Office Channels Interface
Collo	Collocation
COWG	Central Office Work Group
CPE	Customer Premises Equipment
CPG	Circuit Provisioning Group
CRSG	Complex Facility Based Support Group
CWINS	Customer Wholesale Interconnection Network Services
DBMS	Data Base Management Service
DID	Direct Inward Dialing
DP	Dial Pulse
DTMF	Dual Tone Multi-frequency
ECD	Estimated Completion Date
EU	End User
F2	The loop distribution of BellSouth's network
FCO	Foreign Central Office
FISO	Full Image Service Order
FOC	Firm Order Confirmation
FT	Facility Termination
FX	Foreign Exchange
GSST	General Subscriber Services Triff
IBS	Integrated Billing Solution (Tapestry)
ILF	Initial Load File
IOC	Interoffice Channels
ISDN	Integrated Services Digital Network

ACRONYMS

Acronyms	Definition
ISUP	ISDN User Part
LCSC	Local Customer Service Center
LMU	Loop Make Up
LOH	Local Ordering Handbook
LS	Loop Service (Form)
LS-INP	Loop Service with Number Portability
LSP	Local Service Provider
LSR	Local Service Request Form
MA	Missed Appointment
MF	Multi-frequency
MOU	Minute of use
MSA	Metropolitan Service Area
MSAG	Master Street Address Guide
NID	Network Interface Device
NPA	Numbering Plan Administration
OSS	Operational Support Systems
PF	Pending Facilities
POP	Point of Presence
POI	Point of Interface
PRI	Primary Rate Interface
PSAP	Public Safety Answering Point
PS/ALI	Private Switch/Automatic Location Identification
PTD	Plant Test Date
RSOS	Regional Service Order Standards
RT	Remote terminal
SI	Service Inquiry
SL1	Service Level One
SL2	Service Level Two
SS7	Signaling System 7
SWC	Serving Wire Center
T&M	Time and Materials
TCAP	Transaction Capabilities Application Part
TELRIC	Total Element Long Run Incremental Cost
UC	Channelsization
UCL	Unbundled Copper Loop
UDL	Unbundled Digital loop
UIT	Unbundled Interoffice Transport
ULC	Local Channels
ULL	Local Loop
ULM	Unbundled Loop Modification
UNEC	Unbundled Network Elements Center
UT-D	Unbundled Transport – Dedicated
WFA	Work Force Administration

