
Unbundled Loop Modification for Copper Loops

Unbundled Loop Modification for Copper Loops

***CLEC
Information Package***

Version 3

Unbundled Loop Modification for Copper Loops

Table of Contents

1. INTRODUCTION & SCOPE.....	3
2. REVISIONS	4
2.1 VERSION 2.....	4
3. SERVICE DESCRIPTION.....	5
4. SERVICE CAPABILITIES.....	6
5. ULM SCENARIOS	6
5.1 ULM ON NEW LOOP ORDERS.....	6
5.2 ULM ON EXISTING LOOPS	6
5.2.1 <i>ULM on Existing Loops Ordering and Provisioning Process</i>	7
5.3 PRE-APPROVED ULM.....	8
5.3.1 <i>Pre-Approved Ordering and Provisioning</i>	10
5.3.2 <i>Pre-Approved ULM Electronic Ordering Interim Process</i>	10
6. RATE ELEMENTS & USOCS	11
7. INTERVALS.....	11
8. MAINTENANCE AND REPAIR PROCESS	11
9. CONTRACT SPECIFIC PROVISIONS.....	11
10. ACRONYMS	12

Unbundled Loop Modification for Copper Loops

1. Introduction & Scope

This Product Information Package is intended to provide to CLECs a description and general ordering information specific to the Unbundled Loop Modification (ULM) offering 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 Support Manager (LSM) if you have any questions about the information contained herein.

Unbundled Loop Modification for Copper Loops

2. Revisions

2.1 Version 3

- 1) Section 5.2.1 updated to include electronic ordering.

Unbundled Loop Modification for Copper Loops

3. Service Description

Unbundled Loop Modification is defined as routine network modifications that BellSouth regularly undertakes to provide xDSL services to its own customers. This may include the removal of any device, from a copper Loop or copper Sub-loop that may diminish the capability of the Loop or Sub-loop to deliver high-speed switched wireline telecommunications capability, including xDSL service. Such devices include, but are not limited to, load coils, excessive bridged taps, low pass filters, and range extenders. Excessive bridged taps are bridged taps which serve no network design purpose and that are beyond the limits set according to industry standards and/or the BellSouth TR 73600.

ULM will be categorized into two groups:

1) Load Coil Removal

ULM-LC is intended for the removal of load coils or any other intervening equipment on a BellSouth copper loop that is 18,000 feet or less in length.

(Note: BellSouth will not remove load coils on an Unbundled Sub-Loop-Distribution facility where the sub-loop is loaded for voice)

2) Bridged Tap Removal

ULM-Bridged Tap (BT) is intended for the removal of excessive BT from a loop. Excessive BTs are BTs which serve no network design purpose and that are beyond the limits set according to industry standards and/or the BellSouth TR 73600.

Any copper loop being ordered which has over 6,000 feet of combined bridged tap will be modified upon request so that the loop will have a maximum of 6,000 feet of bridged tap. This modification will be performed at no additional charge to the CLEC. BellSouth will choose the appropriate BT that serves no network design purpose to remove.

Requests that require the removal of bridged tap which serves no network design purpose on a copper loop that will result in a combined total of bridged tap between 2,500 and 6,000 feet will be performed at the nonrecurring rates set forth in the CLEC's Interconnection Agreement. The CLEC will choose the BT to be removed to the extent that the BT serves no network design purpose. There may be cases where a single BT (or a combination of BTs) needs to be removed to bring the loop down to between 2,500 and 6,000 feet. If that removal of BT in total brings the BT down below 2,500 feet, the CLEC would be billed at the regular non-recurring rates. However, BellSouth at its discretion may cut BT at easily accessible points to meet the 2,500-6,000 feet limit.

CLECs may request removal of any non-excessive bridged tap (bridged tap between 0 and 2,500 feet which serves no network design purpose), at rates pursuant to BellSouth's Special Construction Process.

Stub cables are short connecting wires (usually less than 25ft) and are not considered bridged tap. Stub cables will not be removed.

Unbundled Loop Modification for Copper Loops

4. Service Capabilities

BellSouth offers the following chargeable ULM options:

- Load Coil Removal for 2 Wire copper loops less than or equal to 18 kilofeet
- Load Coil Removal for 4 Wire copper loops less than or equal to 18 kilofeet
- Bridge Tap Removal for copper loops of any length

The CLEC may use BellSouth's Unbundled Loop Modification (ULM) offering to condition loops for the purposes of providing advanced data services. The CLEC will determine which data services to provide depending on its equipment capabilities.

BellSouth will attempt to perform a pair change in lieu of ULM. If a pair change is feasible, the facility provisioned will meet or exceed specifications of the requested loop modification. The standard interval for the Unbundled Loop will be applied and will begin at the time the service order is updated to indicate "pair change in lieu of ULM". **Note:** If a pair change is performed, the CLEC will not be charged for ULM.

5. ULM Scenarios

5.1 ULM on New Loop Orders

It is expected that the CLEC will first request Loop Make-Up (LMU) information. The LMU will indicate the parameters of a specific loop facility. Once the CLEC obtains the LMU, the CLEC will issue a Service Inquiry (SI) and/or Local Service Request (LSR) for the desired loop type. For ULM requests on new copper loop orders, refer to BellSouth's [CLEC Unbundled Network Element \(UNE\) Products](#) web site for access to CLEC Information Packages for the following loop types:

- Unbundled Asymmetrical Digital Subscriber Line (ADSL) Loop
- Unbundled High-Bit-Rate Digital Subscriber Line (HDSL) (2 or 4 Wire) Loop
- Unbundled Copper Loop – Designed
- Unbundled Copper Loop – Non-Designed
- High Frequency Spectrum Unbundled Loop Modification
- Unbundled Copper Sub-Loop-Distribution

5.2 ULM on Existing Loops

CLECs may order ULM to condition an existing loop served over a copper facility. An existing copper loop is defined as a loop that has been ordered and provisioned and the CLEC subsequently requests conditioning of the loop. The existing copper loops on which the CLEC may order ULM are listed below:

- 2 Wire ADSL Loop
- 2 Wire HDSL Loop
- 4 Wire HDSL Loop
- Unbundled Copper Loops – Designed
- Unbundled Copper Loop – Non-Designed
- Unbundled Voice Loop – SL1
- Unbundled Voice Loop – SL2
- Unbundled Copper Sub-Loop

Unbundled Loop Modification for Copper Loops

5.2 ULM on Existing Loops (continued)

5.2.1 ULM on Existing Loops Ordering and Provisioning Process

The CLEC will place an order for ULM on an existing loop according to the provisions below:

- **Electronic Ordering:**
 - CLECs now have the ability to electronically order loop modifications to Unbundled Network Element (UNE) service orders using the LSR format. Note: This will eliminate the need for a CLEC to fill in a paper service inquiry (SI) for loop modifications.
 - Prepare & submit an electronic LSR according to the ordering requirements in the [Local Ordering Handbook \(LOH\)](#).
 - The LSR has two new fields that are to be used by the CLEC when ordering ULM electronically.
 - LMT – Loop Modification Type – This field identifies the loop changes involved in this service request. There can only be one LMT field. Valid entries are:
 - B – Remove all load coils
 - D – Remove specified Bridged Taps
 - G – Remove specified bridged taps and all load coils
 - If entry is D or G, BTRL field must be populated
 - BTRL – Bridged Tap Removal Location - Identifies the location of the bridged tap to be removed from the loop. This field is also used to indicate which of three groups of bridged tap removals this removal fall under. There can be up to five of these fields for a maximum of four BT removals and one indicator.
 - The BTRL field must be populated if the LMT field is populated with D or G.
 - The first BTRL field will indicate which type of loop modification is needed based on the three possible types below:
 - BT <6000' – This indicates that the CLEC is requesting that BT be removed to bring the total BT under 6000 feet. In this instance the OSPE decides which BTs to remove to bring the total BT to less than 6000 feet. The CLEC does not get to choose which BTs to remove and BellSouth will only remove sufficient BT to bring the total BT on the loop under 6000 feet. When this option is chosen there should not be any additional BTRL fields populated.
 - 2500 > BT <6000 – If this option is chosen the CLEC must populate at least one more BTRL field. They may also choose to populate all four remaining BTRL fields. This would allow the CLEC to remove four separate BTs by specifying one in each additional BTRL field.
 - BT < 2500 feet – This option tells OSPE that the CLEC wants to bring the BT down below 2500 feet. This option triggers the special construction process. All costs associated with removing the BTs specified should be billed as applicable. The CLEC will populate additional BTRL fields to specify the specific BTs to be removed up to a maximum of four.

Unbundled Loop Modification for Copper Loops

- The second through the fifth BTRL fields will indicate specific BT removal locations. The data required in these fields should use the following criteria:
 - Fields consist of up to a eleven character code where:
 - First two numeric characters (positions 1 and 2) are required and represent the kilo feet (kft) to be removed. (This represents the whole number portion of the kilo feet measurement.)
 - The next character (position 3) is a decimal point.
 - The next two numeric characters (positions 4 & 5) represent fraction of kilo feet (kft) of bridge tap to be removed or 0 (zero).
 - The next alpha character (position 6) is always the letter “a” and represents the “at” symbol (@).
 - The next three positions (positions 7, 8 & 9) are numeric and are used to represent the distance or location in kilo feet (kft) from the Central Office. (This represents the whole number portion of the kilo feet measurement.)
 - The next character (position 10) is a decimal point.
 - The last character (position 11) is numeric and represents the fraction of kilo feet (kft) of the distance or location from the Central Office or zero (0).

- **Manual Ordering:**
- CLEC will submit a Service Inquiry (SI) to the Complex Resale Support Group (CRSG) UNE Team.
- Refer to the SI for Loop Modifications to Existing UNE Loops and Instructions for Preparing Service Inquiry.
- Refer to the [Complex Resale Support Group](#) (CRSG) web site for submission requirements.
- The CRSG UNE Team sends the SI to Outside Plant Engineering (OSPE) for processing the request.
- If OSPE finds a suitable pair that meets the specifications of the loop parameters of the existing loop with modifications and the CLEC indicates approval for a “pair change” on the SI, OSPE will arrange for a pair change. **Note:** The CLEC will not be charged for ULM in this situation.
- OSPE will fill out the estimated completion date (ECD) and returns the SI to the CRSG UNE Team.
- The CRSG UNE Team will notify the CLEC of the ULM ECD and/or whether the “pair change” option applies.
- The CRSG UNE Team forwards the SI to the Local Carrier Service Center for processing the service order.

BellSouth will not modify an existing copper loop so that it no longer meets industry standards.

5.3 Pre-Approved ULM

The Pre-Approved ULM option allows the CLEC to authorize ULM on an xDSL Loop order in the event it is discovered during the provisioning process that there is a discrepancy in the Loop Make-Up records and the facility does need modifying. By choosing this option, the CLEC is authorizing BellSouth to modify a facility if

Unbundled Loop Modification for Copper Loops

necessary without requesting additional permission from the CLEC. BellSouth will only modify the Loop to the extent needed to make the loop meet the specifications of the Loop type being ordered.

The following Loop types are eligible for the Pre-Approved ULM option:

- [Unbundled Asymmetrical Digital Subscriber Line \(ADSL\) Loop](#)
- [Unbundled High-Bit-Rate Digital Subscriber Line \(HDSL\) \(2 or 4 Wire\) Loop](#)
- [Unbundled Copper Loop – Designed](#)
- [Unbundled Copper Loop – Non-Designed](#)

Unbundled Loop Modification for Copper Loops

5.3 Pre-Approved ULM (continued)

5.3.1 Pre-Approved ULM Ordering and Provisioning

- CLEC performs Loop Make-Up, obtains a FRN.
- Prepare & submit a LSR or an electronic order according to the ordering requirements in the [Local Ordering Handbook \(LOH\)](#). Additionally, the CLEC will populate the SCA field on the LSR or the electronic order with a “Y” to authorize the Pre-Approved ULM option.
- It is discovered during the provisioning process that the reserved facility does need ULM.
- BellSouth will attempt to provision a spare compatible pair.
- If a spare pair cannot be found, BellSouth Engineering will issue a job and the order will be sent back to the LCSC to be updated with a new interval.
- The order will be updated with the “xDSL Loop/ with ULM” interval which begins at the time of the service order update.
- BellSouth will modify the loop according to the specifications for the loop type requested as documented in [BellSouth’s Technical Reference 73600 \(TR73600\)](#).
- CLEC will be charged the appropriate ULM rates according to its BellSouth Interconnection Agreement.
- The Pre-Approved ULM process eliminates the need for the CLEC to prepare and submit a SI and re-submit a second (2nd) LSR.
- **Note:** A Service Inquiry is not needed

5.3.2 Pre-Approved ULM Electronic Ordering Interim Process

The Electronic Ordering Interim Process for Pre-Approved ULM will no longer be available as of August 26, 2004. It is replaced by the electronic ordering process, which is available on July 26, 2004. Refer to the individual Unbundled Loop CLEC Information Packages for additional ordering detail.

Unbundled Loop Modification for Copper Loops

6. Rate Elements & USOCs

<i>USOC</i>	<i>Rate Element</i>
ULM2L	Load Coil Removal 2 Wire less than 18 Kilo-feet
ULM4L	Load Coil Removal 4 Wire less than 18 Kilo-feet
ULMBT	Bridged Tap Removal

7. Intervals

Intervals for xDSL Loop orders with Unbundled Loop Modifications can be found in the Interval Guide section of the LOH.

8. Maintenance and Repair Process

Trouble tickets will not be issued for the ULM product but rather on the loop itself. BellSouth will only provide electrical continuity and balance relative to tip and ring on circuits that have been modified beyond the required characteristics for that loop type.

9. Contract Specific Provisions

Before ULM can be ordered, the CLEC must have an Interconnection Agreement that includes terms, conditions and rates for the ULM being requested. The agreement must be in effect for all states where the CLEC plans to order modified loops.

The information contained herein applies to ULM general offering and is part of the standard BellSouth agreement. The general offering is in accordance with BellSouth policies, procedures and regulatory obligations as well as the Standard Interconnection Agreement.

The general offering does not address specific contract issues within a CLEC's Interconnection Agreement that may be different from the general offering. Where specific contract issues differ from the information provided here, the contract provisions will prevail for the term of the specific CLEC Interconnection Agreement. Otherwise, the general offering provisions will apply.

Unbundled Loop Modification for Copper Loops

10. Acronyms

ADSL	Asymmetrical Digital Subscriber Line
BT	Bridged Tap
CLEC	Competitive Local Exchange Carrier
CRSG	Complex Resale Support Group
ECD	Estimated Completion Date
HDSL	High-Bit-Rate Digital Subscriber Line
LMU	Loop Make-Up
LCSC	Local Carrier Service Center
LSM	Local Support Manager
LSR	Local Service Request
SI	Service Inquiry
UCL-D	Unbundled Copper Loop-Designed
ULM	Unbundled Loop Modification
UNE	Unbundled Network Element
USOC	Universal Service Order Code