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**Kathleen B. Levitz**  
Vice President-Federal Regulatory

202 463-4113  
Fax 202 463-4198

December 21, 2000

WRITTEN EX PARTE

Ms. Magalie Roman Salas  
Secretary  
Federal Communications Commission  
The Portals  
445 12<sup>th</sup> Street, S.W., Room TW-A325  
Washington, D.C. 20554

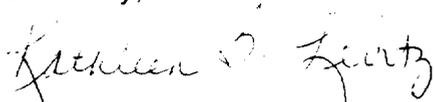
Re: CC Docket No. 98-147  
CC Docket No. 96-98 ✓

Dear Ms. Salas:

Attached is a copy of documents that BellSouth has sent to data CLECs that attended the Commission-sponsored roundtable on technical issues related to line-sharing on December 6, 2000. BellSouth has provided this information in compliance with the request of the FCC staff at that meeting. BellSouth has also shared copies of these documents with Jessica Rosenworcel of the Commission's Common Carrier Bureau on December 21, 2000.

In accordance with Section 1.1206(b)(1), I am filing two copies of this notice for each of the dockets identified above. If you have any questions concerning this, please call me at 202.463.4113.

Sincerely,



Kathleen B. Levitz

Attachment

cc: Jessica Rosenworcel (w/o attachment)

The attached document describes BellSouth's Electronic Loop Make Up (LMU) Service. LMU Service is a pre-order tool that DLECs can use to determine the characteristics of loops. LMU Service is available now as a manual or electronic inquiry service.

In the December 15, 2000 submission, BellSouth described two steps to improve their provisioning of line sharing end user orders. These measures are

- DLEC TAFI, which allows CLECs access to BellSouth's TAFI system. DLEC TAFI allows DLECs to report troubles, check status of troubles, establish vendor meets, etc. DLEC TAFI also allows DLECs to run mechanized loop testing (MLT) on loops they share with BellSouth. This will allow DLECs to determine if the splitter is installed prior to their dispatching a technician. DLEC TAFI is available now.
- Line Sharing Verification Transmitter (LSVT), which allows BellSouth technicians to test the continuity of the data wiring. LSVTs have been ordered from the supplier and the use of this test will be included in the CO installation procedures in January 2001.

BellSouth has implemented some additional measures to improve provisioning of line sharing end user orders.

### **COSMOS Report**

BellSouth recently provided the COSMOS Report to line sharing DLECs to improve line sharing provisioning. This new report is an extract from BellSouth's cable inventory system. The COSMOS Report allows DLECs to view their BellSouth cable pair assignments. The DLEC can then determine if their cable assignments records match the assignments on the BellSouth work order. The DLEC can also view the status of the work order. The COSMOS Report is available from all COSMOS COs now and BellSouth plans to make the report available for SWITCH COs in early 2001.

BellSouth has also implemented several temporary processes that will be used until the trouble backlog for line sharing end user service is cleared. These temporary processes include a "help desk" function and "trouble report bulk loading".

### **Help Desk**

BellSouth dedicated a project manager who is providing a "help desk" function to coordinate BellSouth's efforts to resolve individual provisioning problems, region-wide. This help desk resource is to be used when regular processes, including established escalation processes, are not adequate.

### **Trouble Report Bulk Loading**

BellSouth will allow CLECs to submit a list of telephone numbers in trouble conditions, by CO. Once a CO has been "streaked", BellSouth will accept multiple troubles via email to the help desk. BellSouth will load those numbers into their trouble tracking system for the CLEC. Plans are to assign the troubles to one technician.



# Electronic Pre-order Loop Makeup

Version 2

Presented to the CO Based (BST Owned Splitter) Line Sharing Collaborative, 12/07/00  
Lianne Griffin, BellSouth Program Manager

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**BELLSOUTH**

12/07/00

1

# Electronic Pre-Order Loop Makeup

## **Electronic LMU Functionality Deployed into Production 11/20/00:**

- Provides Loop “Make-Up” detail to the requesting D/CLEC.
- D/CLEC determines independently if an end user’s loop is capable of supporting their implementation of xDSL or Line Sharing services.
- Requesting D/CLEC may view existing facilities, (Telephone Number or Circuit ID, - identified), when the facilities are owned by the submitting CLEC or BellSouth.
- Requesting D/CLEC may query for new/spare facilities owned by BellSouth (D/CLEC will select or input a NC/NCI/SECNCI “codeset reference” used to “fine tune” the facility types returned in the LMU. This “codeset reference” will NOT be used to “qualify (yes/no)” a facility. It will be used only to return a focused, abbreviated list of facilities **that are a best match to meet the NC/NCI/SECNCI codes on the request.**) .
- Requesting D/CLEC may query for and reserve new/spare facilities for a “standard” timeframe.
- Requesting D/CLEC may cancel unneeded reservations for new / spare facilities within the standard timeframe.

# Electronic Pre-Order Loop Makeup

The CLEC xDSL pre-order LMU transaction requires the user to input / select :

- A validated address and Telephone Number, (for requests involving existing facilities).
- A validated address and Circuit Identifier, (for requests involving existing facilities).
- A validated address, with an NC / NCI / SECNCI codeset that identifies UNE ADSL 2-wire, UNE HDSL 2 or 4 wire service, UNE UCL-Short (2 or 4 wire), or UNE UCL-Long (2 or 4 wire) and the number of spare facilities desired (up to ten (10)) for requests involving new / spare facilities.
- The Facilities Reservation Number (FRN) to cancel reservations.

# Electronic Pre-Order Loop Makeup

## Data Available in LFACS for an LMU Query

### LFACS LOOP and LOOP MAKUP DATA DEFINITIONS

Name	Definition
LOOP	Loop aggregate, 1 occurrence for working circuit, up to 10 occurrences for spare facilities
LPSTAT	Loop status: WKG=working circuit, PND-IN=pending-in circuit, PND-OUT=pending-out circuit, CT=connect-through, CF=connected facility
MTR	Meets transmission requirements indicator: Y or Null
RTF	Receive/Transmit Indicator: R=receive pair, T=transmit pair
SSC	Single Subscriber Carrier Indicator: P=physical pair, D=derived pair; 1=Channel One, UDC Device, 2= Channel Two, UDC Device; A=Channel One, DSSC Device, B=Channel Two, DSSC Device;
FN	Segment Aggregate, 1-9 occurrences per loop
CA	Cable identifier of specific feeder or distribution cable within a wire center
PR	Pair Identifier of unique pair within a cable
ABP	Assignable Binding Post Identifier associated with a fiber channel

# Electronic Pre-Order Loop Makeup

TEA	Terminal Identifier
CQ	Count Qualification Code associated with a pair appearance at a terminal
DQ	Count Despecialization Code associated with a pair appearance at a terminal
TRMED	Transmission Medium Type or system type supporting the loop segment (e.g., METAL, SLC96)
LMU	Loop Makeup Aggregate, 1 per segment
LMSTAT	Loop Makeup Status or status of count makeup for that segment (e.g., ??, OK, RMV, REMOVE, MAN, MANUAL)
LUINT	Length Unit (e.g., KF, FT, MI)
NLD	Load Point Number identifies the number of load coils on the segment
COIL	Load Coil Type: type of load coil associated with a cable count. If the first character of the load field is alphabetic, the alphabetic character is excluded from the stated code (e.g., H88 matches 88).
ES	End Section: central office end section defines the distance from the central office to the first load coil. Required on loaded F1 pairs.
LDSP	Load Spacing: lengths between load coils of a segment.

# Electronic Pre-Order Loop Makeup

BO	Build Out Aggregate, Occurs 1-2 times per LMU aggregate
BOCAP	Build Out Capacity is the capacitance in microfarads (uf) of the build out.
BORES	Build Out Resistance is the resistance in ohms of the build out.
BOOFF	Build Out Offset is the distance from the central office to the build out.
SPL	Splice Section Aggregate occurs 1-10 times per LMU aggregate
GA	Gauge (thickness) of the cable section
LGTH	Length of the cable gauge
UBA	Type of cable (underground, buried, aerial)
CAPAC	Capacitance: the capacitance in microfarads (uf) of a cable gauge per mile (total capacitance if referring to a bridge tap).
BTOFF	Bridge Tap Offset: bridge tap offset indicates if a gauge length is bridge tap. A data value of X or Y indicates the gauge length is a bridge tap and the offset of the bridge tap is equal to the sum of the prior non-bridge tap segment lengths. A numeric value specifies the distance from the beginning of the cable to the start of the bridge tap. Decimal points are valid.

# Loop Makeup for Working Loops – Prior to Submitting an Inquiry

Inquiry - Loop Makeup - Netscape

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Bookmarks Netsite: http://lensdev1.al.bst.bls.com:27002/cgi-bin/gx.cgi/AppLogic+lens.ui.LENSValidateAddress?source=LENSInquiryLoopMakeup& What's Related

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**BELLSOUTH**

**Local Exchange Navigation System**

**Inquiry Loop Makeup for Working Loops**

819 29TH ST S  
APT A  
BIRMINGHAM AL 35205

Telephone Number: 2059337363

Circuit ID:

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5/31/2000

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# Loop Makeup for Working Loop (Loaded Copper) – After Submitting an Inquiry (1 of 2)

**Inquiry Loop Makeup - Netscape** [ \_ [ X ]

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**Local Exchange Navigation System**

**Inquiry Loop Makeup for Working Loops**

00 - Successful Query

3086 HIDDEN FOREST DR SW  
SNELLVILLE GA 30078

Telephone Number: 7709725442

Circuit ID: \_\_\_\_\_

[Submit Inquiry](#)

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Loop Number	Loop Details			
1	<b>Facility Status</b>			
	Assembled Facility Status	WKG	Receive/Transmit Indicator	Single Subscriber Carrier Indicator
	<b>Segment Information</b>			
	Segment 1	Cable Identifier	13	Pair Identifier
		Assignable Binding Post		Transmission Media Type
		Terminal Identifier	F 2952 SKYLAND DR SW	155 METAL
	<b>Loop Makeup</b>			
	Loop Makeup Status		OK	
	Length Unit		KF	
	Load Point Number		2 (Null if Non-Loaded)	
	Load Coil Type		H88	

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# Loop Makeup for Working Loop (Loaded Copper) – After Submitting an Inquiry (2 of 2)

**Inquiry Loop Makeup - Netscape** [ \_ [ X ]

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<b>Segment 1</b>	<b>Cable Identifier</b>	13	<b>Pair Identifier</b>	155	
	<b>Assignable Binding Post</b>		<b>Transmission Media Type</b>	METAL	
	<b>Terminal Identifier</b>	F 2952 SKYLAND DR SW			
	<b>Loop Makeup</b>				
	<b>Loop Makeup Status</b>	OK			
	<b>Length Unit</b>	KF			
	<b>Load Point Number</b>	2 (Null if Non-Loaded)			
	<b>Load Coil Type</b>	H88			
	<b>Load Spacing</b>	6.0			
	<b>End Section</b>	2.99			
	<b>Splice</b>				
	<b>#</b>	<b>Gauge</b>	<b>Length</b>	<b>Type of Cable</b>	<b>Capacitance</b>
	1	24	7.19		
	2	26	4.52		
	<b>Bridge Tap Offset</b>				
<b>Segment 2</b>	<b>Cable Identifier</b>	2952SD	<b>Pair Identifier</b>	438	
	<b>Assignable Binding Post</b>		<b>Transmission Media Type</b>	METAL	
	<b>Terminal Identifier</b>	F 3077.1 HIDDEN FOREST DR			

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# Loop Makeup for Working Loop (Non-loaded Copper) – After Submitting an Inquiry (1 of 2)

Inquiry - Loop Makeup - Netscape

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Bookmarks Netsite: http://g1028134.ms.bst.bls.com/cgi-bin/gx/cgi/AppLogic+lens.ui.LENSInquiryLoopMakeup

Instant Message Members WebMail Connections BizJournal SmartUpdate Mktplace

Loop Number	Loop Details					
1	<b>Facility Status</b>					
	Assembled Facility Status	WKG	Receive/Transmit Indicator	Single Subscriber Carrier Indicator		
	<b>Segment Information</b>					
	Segment 1	Cable Identifier	5	Pair Identifier	308	
		Assignable Binding Post		Transmission Media Type	METAL	
		Terminal Identifier	399 NE 7 ST			
	<b>Loop Makeup</b>					
		Loop Makeup Status	OK			
		Length Unit	KF			
		Load Point Number	(Null if Non-Loaded)			
		Load Coil Type				
		Load Spacing				
		End Section				
		Splice				
		#	Gauge	Length	Type of Cable	Capacitance
		1	24	.1		
		2	22	2.5		
		3	26	6		
						Bridge Tap Offset

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# Loop Makeup for Working Loop (Non-loaded Copper) – After Submitting an Inquiry (2 of 2)

**Inquiry - Loop Makeup - Netscape**

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	2	22	2.5		
	3	26	6		

**Segment 2**

<b>Cable Identifier</b>	501	<b>Pair Identifier</b>	37
<b>Assignable Binding Post</b>		<b>Transmission Media Type</b>	METAL
<b>Terminal Identifier</b>	8GNE7		

**Loop Makeup**

<b>Loop Makeup Status</b>	OK
<b>Length Unit</b>	KF
<b>Load Point Number</b>	(Null if Non-Loaded)
<b>Load Coil Type</b>	
<b>Load Spacing</b>	
<b>End Section</b>	
<b>Splice</b>	

#	Gauge	Length	Type of Cable	Capacitance	Bridge Tap Offset
1	24	0.5			

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# Loop Makeup for Working Loop (Pair Gain) – After Submitting an Inquiry (1 of 2)

**BELLSOUTH**  
**Local Exchange Navigation System**  
 Inquiry **Loop Makeup for Working Loops**  
 00 - Successful Query  
 108 HUDSON ST  
 INGLIS FL 34449  
 Telephone Number: 3524470235

Circuit ID:

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Loop Number	Loop Details			
1	<b>Facility Status</b>	WKG	Receive/Transmit Indicator	Single Subscriber Carrier Indicator
	Assembled Facility Status			
	<b>Segment Information</b>			
	Segment 1	Cable Identifier	PG6	Pair Identifier 1121
		Assignable Binding Post		Transmission Media Type FDLC
		Terminal Identifier	F 957 HWY 40 E	
	Segment 2	Cable Identifier	251030	Pair Identifier 123

Document: Done

## Loop Makeup for Working Loop (Pair Gain) – After Submitting an Inquiry (2 of 2)

**Inquiry Loop Makeup Netscape**

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	<b>Binding Post</b>		<b>Media Type</b>			
	<b>Terminal Identifier</b>	F 957 HWY 40 E				
<b>Segment 2</b>	<b>Cable Identifier</b>	251030	<b>Pair Identifier</b>	123		
	<b>Assignable Binding Post</b>		<b>Transmission</b>	METAL		
	<b>Terminal Identifier</b>	PED 3 HUDSON ST	<b>Media Type</b>			
	<b>Loop Makeup</b>					
	<b>Loop Makeup Status</b>		OK			
	<b>Length Unit</b>		KF			
	<b>Load Point Number</b>		(Null if Non-Loaded)			
	<b>Load Coil Type</b>					
	<b>Load Spacing</b>					
	<b>End Section</b>					
	<b>Splice</b>					
	<b>#</b>	<b>Gauge</b>	<b>Length</b>	<b>Type of Cable</b>	<b>Capacitance</b>	<b>Bridge Tap Offset</b>
	1	24	0.5			

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# Loop Makeup for New/Spare Facilities – Prior to Inquiry

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**BELLSOUTH**

**Local Exchange Navigation System**

Inquiry **Loop Makeup for New or Spare Loops**

819 29TH ST S  
APT A  
BIRMINGHAM AL 35205

Loop Service Type:  Number of Spare Loops:

Loop Service Type will only be used to return a more focused and abbreviated list of Facilities. Loop Service Type should NOT be interpreted as an indication that the returned loops qualify for any specific use.

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# Loop Makeup for Spare Loop (Non-loaded Copper) – After Submitting an Inquiry (1 of 2)

**Inquiry - Loop Makeup - Microsoft Internet Explorer**

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**BELLSOUTH**

**Local Exchange Navigation System**

**Inquiry Loop Makeup for New or Spare Loops**

00 - Successful Query

301 MAIN ST  
BATON ROUGE LA 70801

Selected Loop Service Type: ADSL (2 wire)

Requested Number of Loops: 01

Loop Service Type:

Number of Spare Loops:

Loop Service Type will only be used to return a more focused and abbreviated list of facilities. Loop Service Type should NOT be interpreted as an indication that the returned loops qualify for any specific use.

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Loop Number	Loop Details			
1	<b>Facility Status</b>			
	Assembled Facility Status	CF	Receive/Transmit Indicator	Single Subscriber Carrier Indicator
	<b>Segment Information</b>			
	Segment 1	Cable Identifier	45	Pair Identifier
		Assignable Binding Post		Transmission Media Type
		Terminal Identifier	IBA 301 MAIN ST	530 METAL

Internet zone

# Loop Makeup for Spare Loop (Non-loaded Copper) – After Submitting an Inquiry (2 of 2)

Inquiry - Loop Makeup - Microsoft Internet Explorer

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Assembled Facility Status	CF	Receive/Transmit Indicator	Single Subscriber Carrier Indicator			
<b>Segment Information</b>						
Segment 1	Cable Identifier	45	Pair Identifier 530			
	Assignable Binding Post		Transmission Media Type METAL			
	Terminal Identifier	IBA 301 MAIN ST				
<b>Loop Makeup</b>						
	Loop Makeup Status	OK				
	Length Unit	KF				
	Load Point Number	(Null if Non-Loaded)				
	Load Coil Type					
	Load Spacing					
	End Section					
	Splice					
	#	Gauge	Length	Type of Cable	Capacitance	Bridge Tap Offset
	1	26	2.4			

References | Cancel

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11/28/2000

Internet zone

# Loop Makeup - Cancel Reservations – Prior to Inquiry

Inquiry Loop Makeup Netscape

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**BELLSOUTH**

Local Exchange Navigation System

Inquiry **Cancel Loop Reservation**

819 29TH ST S  
APT A  
BIRMINGHAM AL 35205

Facilities Reservation Number:

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**BELLSOUTH**

12/07/00

# Electronic Pre-Order Loop Makeup

## ■ TAG Response

```
status={
  msgId=00;
  msgTxt="Successful Query";
};
messageHeader={
  inquiryNumber=F8AE8DA8000054C2
  dateSent=2000081413495105;
};
loopList=(
  {
    lpstat=WKG;
    fnList=(
      {
        ca=PG16;
        pr=879;
        tea="F 600 S DESHON RD";
        trmed=SLC5;
        lmulList=(
          {
            lmstat=OK;
            luint=KF;
            bolList=(
              );
            );
          );
        );
      );
    );
  );
);
```

# Electronic Pre-Order Loop Makeup

## ■ TAG Response (cont.)

```
    splList=(  
      {  
        ga=24;  
        lgth=1.03;  
      };  
      {  
        ga=26;  
        lgth=.91;  
      };  
    );  
  };  
);  
{  
  ca=600SDR;  
  pr=1093;  
  tea="F 600 FORTUNE RIDGE RD  
  trmed=METAL;  
  lmulList=(  
  );  
};  
);  
};  
);  
m0072100:7.1.0.3_client=>  
{
```

# Electronic Pre-Order Loop Makeup

## ■ Enhanced LMU Capabilities (targeted 1Q01):

- OPTIONALLY enter NC, NCI, and SEC NCI codeset. If no NC/NCI/SEC NCI codeset is entered, the default shall be the same as for POTS service.
- Additional information will be returned to the user on a loop makeup request:
  - RZ (Resistance Zone)
  - CZ (Carrier Zone)
  - RLA (Remote Location Address)
  - TLM (Telemetry Indicators)
  - RLC (Remote Term CLLI Code)
  - Cable Count Derived Pairs (PG cable/pair name)
  - LTS (Line Terminal Status)
  - DSLAM Presence
  - IFITL Information (Cable/pair name)
  - ONU Type
  - Terminal Address for all segments
  - Cable/Pair for WTN (Working Telephone Number)
- OPEDS Bulk Upload to LFACS

# Electronic Pre-Order Loop Makeup

## ■ OPEDS Bulk Upload

- Approximately 35% of all loops have loop makeup built in LFACS
- Greater percentage of feeder facilities vs. distribution pairs; higher in major metropolitan areas than in rural areas.
- OPEDS only in NC, SC, GA, FL and 13 wire centers in AL
- LMU traceability is run by segment within OPEDS.
- Automatic upload to LFACS database.
- CLEC Forecasts, coupled with reports showing % LMU in LFACS, are used to determine prioritization list

# Electronic Pre-Order Loop Makeup

## ■ Next LMU Enhancements (targeted 2Q01):

- Ability to select/reserve specific BST facilities returned from the Loop Makeup Service Inquiry by loop and receive a positive response from the system with the RESID. If only a subset of the request can be satisfied, will reserve that subset and advise the D/CLEC of those loops that could be reserved.
- If LFACS does not return loop makeup information to the system for all segments or (the loop makeup status is either NULL or does not equal OK) and if ONUTYPE is not populated on the Fn segment of the loop, a loop makeup query will be sent to OPEDS for those segments that do not have loop makeup; otherwise, return the LFACS loop makeup information to the user.
- Override the Loop Make-up status to equal "OK" for those segments for which Loop Make-up was returned by OPEDS and update LFACS.
- If REQTYP = A or B (Excluding REQTYP B for INP only), and the user submits a firm order using a RESID which does not exist in LFACS, the user shall be sent a fatal error message.

# Electronic Pre-Order Loop Makeup

## ■ Next LMU Enhancements (targeted 2Q01) (continued):

- If the Users firm order does not use ALL of the loops reserved, for XDSL/UCL-L/UCL-S/LS, on the RESID by the end of the 96 hours, the system will remove the remaining unused loops (facilities released). The facilities will be retained during the 96 hour period as the user may place multiple firm orders against the pairs reserved. The total lines requested on all firm order with that RESID cannot exceed the original number reserved. If so, a fatal error message should be returned indicating that the total number of lines requested exceeds the number of remaining reservations.
- Along with the LFACS data, an Informational message should be sent to the D/CLEC in case of OPEDS timeout for loop makeup service inquiry. The message is at a response level, not at a segment level.
- In case of OPEDS error from Loop Makeup Service Inquiry, return available LFACS Loop Make-up data to the D/CLEC.

# Electronic Pre-Order Loop Makeup

## ■ Future LMU Enhancements (targeted 3Q01):

- LMU Mechanization Billing for each transaction/reservation.
- Screen the Contracts Database for contract provisions that allow D/CLEC to submit LMU request.
- Enhanced handling of LMU timeout and/or incomplete response handling.
- RESID by individual loop or by LSR (OBF Impact).
- Additional search criteria added to assist in locating appropriate, workable facilities (SL1, SL2, DSO, ISDN).
- LMU Response date of transaction indicator. Date/time returned to the requestor.
- LMU for remote/sub-loop
- Hierarchy for finding spares (i.e., NL copper, loaded copper, pg, etc.)
- Next 10 spares?