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Federal Communications Commission
Washington, D.C. 20554

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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

December 7, 2000

Ms. Magalie Roman Salas
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

EX PARTE OR LATE FILED

Re: Deployment of Wireline Services Offering Advanced Telecommunications Capability, CC Docket No. 98-147; Implementation of the Local Competition Provisions of the Telecommunications Act of 1996, CC Docket No. 96-98; Application by Verizon New England, Inc. for Authorization Under Section 271 of the Communications Act to Provide In-Region, InterLATA Service in the State of Massachusetts, CC Docket No. 00-176; Application by SBC Communications, Inc. for Authorization Under Section 271 of the Communications Act to Provide In-Region, InterLATA Service in the States of Kansas and Oklahoma, CC Docket No. 00-217

Dear Ms. Salas,

On December 6, 2000, members of the Common Carrier Bureau met with representatives of Covad, Rhythms NetConnections, IP Communications, BellSouth, Qwest, SBC, Verizon, CompTel and USTA to discuss operational issues associated with the implementation of line sharing on a nationwide basis.

Attached are copies of documents provided by Qwest, SBC, and Verizon that contain information concerning their provisioning of line sharing for competitive carriers. The parties at the meeting discussed generally the provisioning processes contained in these documents. Also attached is a document prepared by Covad and distributed at the meeting that lists proposed solutions for certain provisioning issues.

In accordance with Section 1.1206(b) of the Commission's rules, 47 C.F.R. § 1.1206(b), two copies of this notice are being submitted for filing in each of the above-captioned proceedings.

Sincerely,


Jodie Donovan-May
Policy Division
Common Carrier Bureau

From: "Mary Retka" <mretka@uswest.com>
To: <kfarroba@fcc.gov>
Date: Fri, Nov 17, 2000 2:14 PM
Subject: Qwest Line Sharing Provisioning Information

Ms. Farroba,

I am forwarding the attached on behalf of Melissa Newman, Vice President for Qwest's Washington D.C. office, who is away on business travel. This information was requested in our October 31,2000 meeting with you on Line Sharing Provisioning. It has been sent out to all of the participants. Melissa requested that I also send it directly to you.

----- Forwarded by Mary Retka/GROUPWARE/USWEST/US on 11/17/2000
11:57 AM -----

Mary Retka
11/17/2000 12:01 PM

To: joxman@covad.com, lchase@covad.com, vevans@covad.com, weston@rhythms.net, kscardino@rhythms.net, Jd3235@corp.sbc.com, gf0215@sbc.com, hsiegel@ip.net, mw3692@sbc.com, mb2239@sbc.com, rc2672@sbc.com, charles.kiederer@verizon.com, john.l.white@verizon.com, tommy.g.williams@bridge.bellsouth.com, brenda.b.slonneger@bridge.bellsouth.com, jgentry@ip.net, kathleen.levitz@bellsouth.com, dbender@usta.org, donna.m.epps@verizon.com, augustine.j.trichese@verizon.com, srandolph@verizon.com, jlee@comptel.org, bfarley@rhythms.net, rwilliams@rhythms.net, jmoham@covad.com, abrar@covad.com, bfinchu@covad.com, mzulevic@covad.com
cc: Melissa Newman/DNVRULNS12/USWEST/US@USWEST

Subject: Qwest Line Sharing Provisioning Information

At the October 31,2000 Round Table meeting in Washington D.C. on Line Sharing Provisioning, we were asked to provide a number of items to the group today, November 17, 2000. The attached documents are Qwest's submittals on all of those items.

If you have questions on this, give me a call at 303 707-7000.

Training -

Training data:

(See attached file: LS Trng Doc'n.doc)

Line Sharing Job Aid:

(See attached file: CO Laminated Job Aid Iss clec.doc)

Line Sharing Walk through/CO meet:

(See attached file: L.S. Walkthrough and Testing.doc)

Ordering -

Current Process on Notice of Completion:

(See attached file: LS-Manual Completion Reporting.doc)

Long Term Solution for Notice of Completion:

(See attached file: Long term LS completion reports.doc)

Process Flow on Line Sharing Jeopardies:

(See attached file: Line Sharing Jeopardy Flow.doc)

Loop Qualification-

Qwest Loop Qualification:
(See attached file: IMA ADSL Loop Qual Product Descriptions.doc)
Qwest Raw Loop Data Tool:
(See attached file: -Batch Raw Loop Data Product Announcement.doc)
Forecasting-
Qwest Forecasting Flow:
(See attached file: Forecast Flow.doc)
Central Office-
Qwest Installation Quality Review:
(See attached file: Installation quality review LS Splitter Collo.doc)
Qwest Line Sharing Cross Connection Quality Review
(See attached file: Line Sharing Qual Review ProcessCurrent.doc)
Process for New Splitter installation Request
(See attached file: New LS Splitter Steps in Collocation Process.doc)
Qwest response to question on initial project splitter testing:
(See attached file: Response on Splitter Testing.doc)

----- Forwarded by Mary Retka/GROUPWARE/USWEST/US on 11/17/2000
09:27 AM -----

Mary Retka
11/08/2000 03:30 PM

To: joxman@covad.com, lchase@covad.com, vevans@covad.com,
wweston@rhythms.net, kscardino@rhythms.com, jd3235@corp.sbc.com,
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kathleen.levitz@bellsouth.com, dbender@usta.org, Donna.m.epps@verizon.com,
Augustine.j.trinchese@verizon.com, jlee@comptel.org, bfarley@rhythms.net,
rwilliams@rhythms.net, jmoham@covad.com, abrar@covad.com,
bflinchu@covad.com, mzulevic@covad.com
cc: Melissa Newman/DNVRULNS12/USWEST/US@USWEST

Subject: Qwest Line Sharing Provisioning Points of Contact/Escalation
Information

The attached documents are the Qwest Points of Contact/Escalation Lists for:
the Provisioning Center - with information on timelines, the Account Maintenance
Support Center/Wholesale Repair, the Interconnection Mediated Access system, and
Splitter Installation through the Account Teams. The documents include names,
telephone numbers, and pager numbers for the personnel responsible for resolving
line sharing issues.

If you have any questions on this information, give me a call.

(See attached file: Point of Contact-Escalation for the Provisioning Center.doc)
(See attached file: Unbundled Shared loop Provisioning Center escalation
timeframes.xls)
(See attached file: Point of Contact-escalation AMSC.doc)
(See attached file: Point of Contact-Escalation for IMA.doc)
(See attached file: Point of Contact-Escalation for Splitter Installation1.doc)

Line Sharing Training Documentation

Function	# People Trained Initial	Date(s) Initial Trng Delivered	# People Trained Review	Date(s) Review Trng Delivered	# People Yet to be Trained	Target Date Training Complete	Is L/S included in standard trng path? Y/N	If not in std path, when?
LRAC	726	1/00 - 7/00	100	9/00	0	NA	Y	-
I & M	9462	1/00 - 7/00	5000	9/00	0	NA	Y	
RCHC	562	6/00-8/00	-	-	NA	-	Y	-
Screening	427	6/00-7/00	389	10/00	258	11/00	Y	-
AMSC - (repair center)	47	1/00	42	8/00	NA	NA	Y	-
ISC - (order centers)	4 3 2 1 7 10 62	1/00 4/00 6/00 7/00 8/00 9/00 10/00	NA	NA	0	NA	Y	-
Escalations	22	9/00	NA	NA	15	11-20/00	Y	-
Central Office	1192	8/29/00 - 9/13/00	1192	8/29/00 - 9/13/00	0	NA	N	12/01/00
CO Eqpt Instln - Qwest Empls	623	12/99 - 7/00	-	-	623	12/00	Y	-

11/16/00
9:27 PM

Line Sharing Training Documentation

CO Eqpt. Instln, -- Contr/Vndr	24 Mgrs (CLMs will train contractors)	11/00	NA	NA	24	11/30/00	NA	NA
--------------------------------------	--	-------	----	----	----	----------	----	----

11/16/00
9:27 PM

LINE SHARING PROVISIONING (NON-DESIGN PROCESS FLOW)

This unbundled element service is installed using a basic "lift and lay" procedure on an existing POTS customer. On or before the service order Due Date, U S West Central Office Personnel "lift" the loop from its current termination and "lays" it on a new termination (POTS Splitter) connecting to the Co-Provider's equipment based on data contained on the FOMS output report.

In Addition:

- 1) Central Office Personnel will perform a load coil detection test utilizing a 77S or equivalent test set.
- 2) If a load coil is detected the Central Office Personnel will notify LPC and request a ticket number. Central Office Personnel will not place cross connects until the load coil jeopardy is resolved by the LPC.
- 3) If load coil detection test is negative Central Office Personnel will "cut in" the POTS Splitter per POTS service order using "lift and lay" procedure.
- 4) Central Office Personnel will verify that dial tone is leaving at the protector and "SCM" the order in Switch/FOMS S.
- 5) Je p Codes are: A6-Qwest wiring/inventory issue A7-Splitter not stenciled correctly A8-Splitter not connected on CLEC side A9-Load coils

POTS Splitter Miscellaneous Equipment Code Break-Down

OUTSIDE CLEC SPACE	INSIDE CLEC SPACE
Definition of ME (miscellaneous equipment) for splitter assignment in Switch/FOMS splitter is: me Z99.0100192.05.02-002	Definition of ME (miscellaneous equipment) for splitter assignment in Switch/FOMS splitter is: me Z99.alt01.1
Z99 CLEC id 0100192 Floor and relay rack 05 Bay 02 Shelf 002 Port	Z99 CLEC id alt01 cable name 1 cable count
Delimiters of periods will separate elements with the exception of shelf and port id, a dash will separate these last two elements. Z99.0100192.05.02-002	Delimiters of periods will separate elements. Z99.alt01.1
The frame and frame coordinates will be noted as a permanent remark such as: F03 1G 1H	The frame and frame coordinates will be noted as a permanent remark such as: FO3 B10 C11
F03 designates the frame, 1G is the vertical and horizontal frame location of the VOICE connection and 1H is the vertical and horizontal frame location of the VOICE/DATA connection.	F03 designates the frame, B10 is the vertical and horizontal frame location of the voice connection and C11 is the vertical and horizontal location of the voice/data connection. The frame blocks will be labeled VOICE AND VOICE/DATA.

NOTE 1: It is extremely important that the Office Equipment (OE) is connected to the Voice side of the Splitter and that the facility (cable pair) is connected to the Voice/Data side of the Splitter. If the cross connect terminations are reversed, dial tone will still be detected at the protector but data will not be passed.

NOTE 2: When splitter is located outside the CLEC space, USW provisions and maintains the splitter as in virtual collocation.

LINE SHARING MAINTENANCE (non-design process will be used to resolve the voice trouble.)

Voice Service Trouble Reported by End User and is Isolated to USW Central Office Network.

Use normal trouble processes associated trouble isolation and repair of normal POTS service. Repair trouble and contact customer and close ticket. The possible voice trouble scenarios are as follows:

- Frame Wiring
- Line Translation
- Complex software
- CLEC POTS Splitter affecting trouble

- When the POTS splitter is placed in the central office via Common Area Splitter Collocation, CLEC will order and install additional splitter cards as necessary to increase POTS splitter capacity from the initial installation. CLEC will leave one empty card in every shelf to be used for repair and maintenance until such time as the card must be used to fill the shelf to capacity.
- U S WEST will not disconnect the data service provided to an end user over a Shared Loop unless the end user's voice service is so degraded that the end user cannot originate or receive voice grade calls and/or the end user authorizes U S WEST to disconnect the data service. US WEST will notify CLEC whenever this occurs upon voice trouble ticket closure.

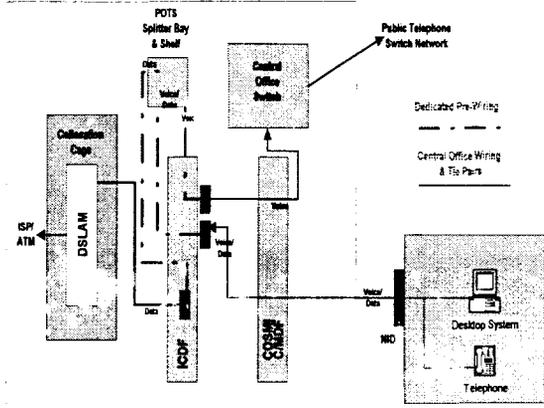
Data Service Trouble Reported by CLEC and is Isolated to a USW Central Office Network

The possible data trouble scenarios are as follows:

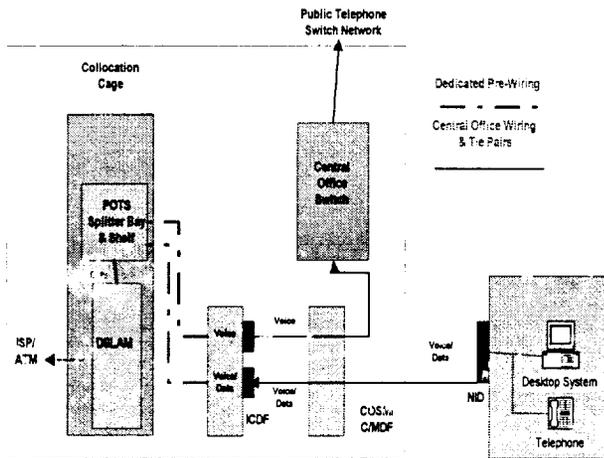
- Frame Wiring
- Existence of Load Coil
- CLEC POTS Splitter affecting trouble

- When the POTS splitter is placed in the central office via Common Area Splitter Collocation, CLEC will order and install additional splitter cards as necessary to increase POTS splitter capacity from the initial installation. CLEC will leave one empty card in every shelf to be used for repair and maintenance until such time as the card must be used to fill the shelf to capacity.
- May be called upon to do cooperative testing with a USW field Technician if they are unable to resolve facility issues.

Shared Loop (CLEC-Owned POTS) Splitter resides outside Cage



Shared Loop (POTS Splitter resides inside Cage)



Line Sharing Example¹

FOMS SERVICE ORDER FRAME OUTPUT - EASTERN C99999999

```

0
6 r      06-19-00 ch c99999999      646-7474 06-19-00
-
1 line eqp reu  2006-01351-02l
9
line eqp  1fr r mnl  f12-11-07116-3-03
c
          9 tie pair in  alx01-0566      Tie Assignment to ICDF Frame
9
9 tie pair  f03-001      f12-12-02101-3-16
9
9 misc eqp in  me  z99.0100192.05.02-002(or z99.alt01.1)  POTS Splitter I D
    
```


Qwest Line Sharing Walkthrough and Testing

- CLECs will have the opportunity to view Splitter Installations through their current Collocation/Splitter Collocation Walkthrough process with Qwest State Interconnect Manager (SICM). This process may include:
 - Showing the CLEC their voice and voice/data frame terminations.
 - Showing the data terminations hard-wired to the CLEC DSO terminations.
 - Showing the location of the splitter bay.
 - The SICM will include Central Office Representative and a review of the Line Sharing Central Office provisioning and maintenance process will take place. This review is similar to the process that Qwest representative, Jerry Shypulski conducted with Covad during initial order placement in Minnesota. That review included:
 - Cross-Connect Appearances
 - Use of Tie Cables between Frames
 - POTS Splitter Plug-In Cards
 - Work documents for wiring by Central Office personnel
 - Relationship of wiring of voice/data, voice and data

- For CPE Sync tests, the CLEC has the ability to conduct this test at the Demarcation point at the splitter. CPE Sync tests are the responsibility of the CLEC.

- Any trouble reports on line sharing circuit installations should follow the current process for reporting trouble that exists today. (Refer to AMSC information provided on November 9, 2000)

Qwest Manual Completion Reporting

Following are the current steps Qwest is taking to provide the Manual Completion Reports:

1. Generate a report nightly from one of our Central Office systems.
2. Data is put in a file to manually retrieve.
3. The data is then manually taken and negotiated to pull out the completion data.
4. The data is then reformatted to identify each CLEC.
5. We then manually pull up each completed order in another system to find the CLEC Pon # and add it to the spreadsheet.
6. The data is then manually copied to e-mail and sent to the designate for each CLEC.

Qwest's Permanent Solution for Providing Line Sharing Completion Reports to CLECs

Qwest's currently has an application that provides daily completion reports to the Competitive Local Exchange Carriers (CLECs) for resale services, unbundled loops, unbundled switching and interim number portability (INP), and the UNE-P. These reports are derived from daily-completed service order activities. Daily reporting of all product completions is done via files sent to the Interconnect Mediated Access - Electronic Data Interchange (IMA-EDI) and the Interconnect Mediated Access - Graphical User Interface (IMA-GUI) gateway applications.

Qwest is in the process of developing the functionality necessary to support providing line sharing loss and completion reports to CLECs on a daily basis via IMA-EDI and/or IMA-GUI. This functionality should be available to CLECs by the end of the first quarter, 2001.

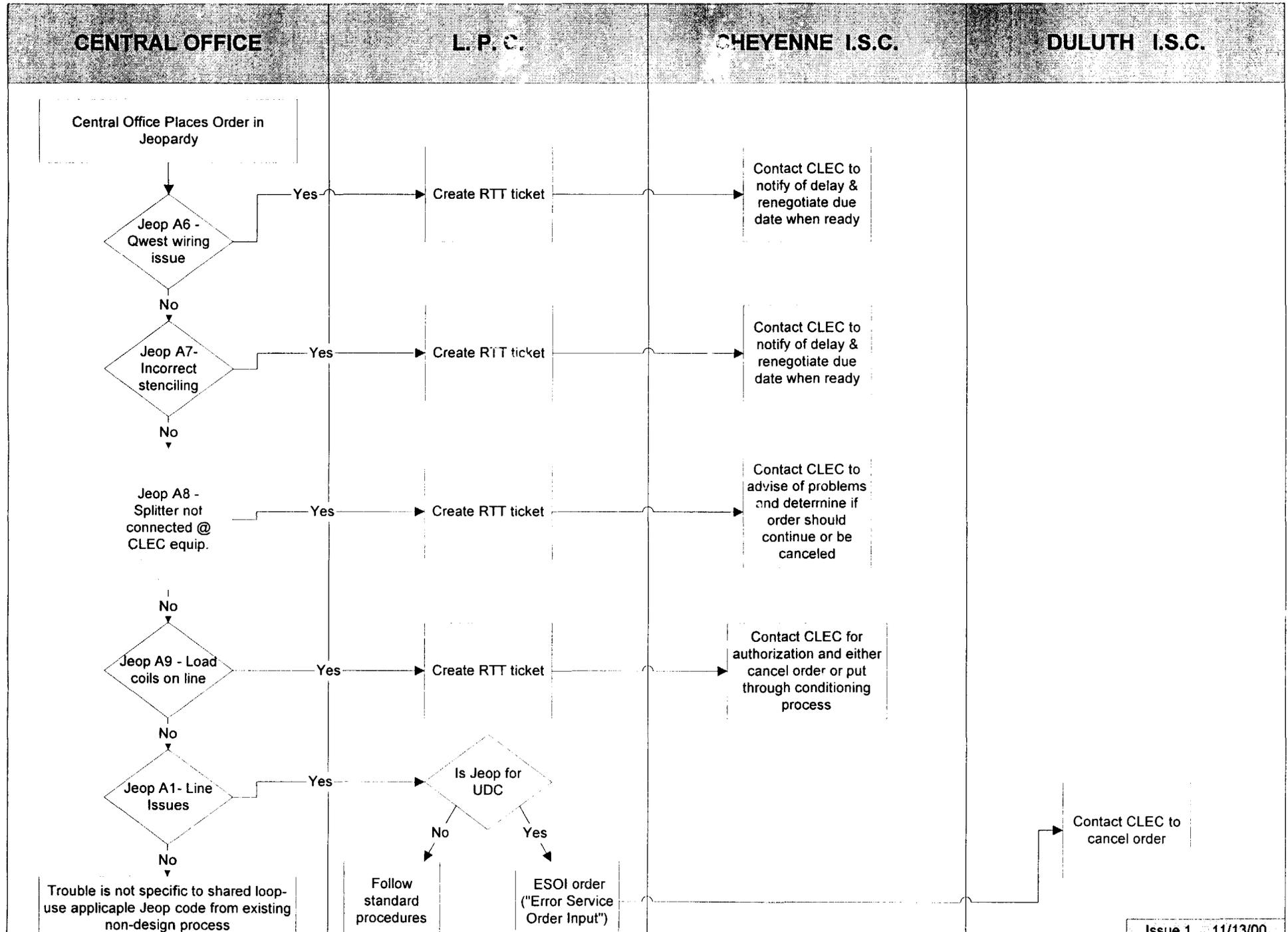
With this new functionality in place, line sharing completion reports will be sent by Qwest to CLECs within 24 hours (in addition to the provisioning interval) of Qwest's work completion of the following types of line sharing orders:

- conversion of an existing Qwest retail customer with a 1FR, 1FB, 1MR, 1MB, HFR, HFB or equivalent classes of service (i.e. analog voice line), to an ADSL Line sharing arrangement (a line with any other service, like ISDN, will have to be converted to one of the above listed Classes of Service prior to ordering ADSL Line sharing),
- data service conversion from one CLEC to another CLEC,
- data service conversion from Qwest (ILEC) to a CLEC,
- conversion of a shared line to an unbundled loop, and
- changing the telephone number of shared loop.

Due to service order processor system limitations in Qwest's Central and Eastern regions, orders completed on Sundays in the Central region and orders completed on Saturdays and Sundays in the Eastern region are not available to CLECs until the following Tuesday.

Shared Loop Jeopardy Process Flow

Sub Process for Overall Shared Loop Provisioning Flow



UNBUNDLED ADSL LOOP QUALIFICATION TOOL:

For both POTS and non-POTS, a Co-Provider representative uses the facility check interface in Interconnect Mediated Access - Graphical User Interface (IMA-GUI) and Interconnect Mediated Access - Electronic Data Interchange (IMA-EDI) to obtain a real-time indication regarding the availability of the requested facilities at the customer's service address.

IMA-GUI is a real-time, human-to-computer electronic interface that allows Co-Providers access to each of the OSS functions necessary to support their customers' requests. IMA-EDI is a real-time, computer-to-computer electronic interface that allows Co-Providers access to each of the OSS functions necessary to support their customers' requests.

In IMA-GUI, the Co-Provider determines whether or not a particular unbundled loop is qualified to provide ADSL service. The Co-Provider has access to this information through the pre-order "facility availability" query. Co-Providers use a customer's address or working telephone number to identify the loop for which they would like to perform the query. It receives a "Yes" or "No" response indicating whether or not the unbundled loop is ADSL qualified along with the following ADSL associated unbundled loop information: length, existence of load coils, the number and length of bridge taps, whether service is on a Digital Loop Carrier (DLC) systems or DAMLs, and insertion loss.

The qualifying statements are as follows:

RESULTS	RESPONSE
No copper facilities available	No facilities are available, or loop is pair gain, UDC, etc.
No non-loaded facilities available	Total loop length, type of load, total length of bridge tap, and insertion loss
Non-qualified non-loaded loop	Total loop length, total length of bridge tap, and insertion loss
Qualified loop available	Total loop length, total length of bridge tap, and insertion loss

If the circuit is not qualified, Facility Check will search for another available circuit and provide information regarding that circuit.

The IMA GUI screen shots below are examples of the screens that Co-Providers see when performing Unbundled ADSL Loop Qualification queries:

Unbundled ADSL Loop Qualification - Address Request Window

The screenshot shows a web-based wizard window titled "Unbundled ADSL Loop Qualification Facility Availability Request Wizard". The main content area is titled "Unbundled ADSL Loop Qualification". At the top, there are two checkboxes: "Number of DSL Lines Requested:" and "Qualify working telephone numbers:". Below these are two tabs: "Address Request" (selected) and "TN Request". The "Address Request" section contains a "Validated Addresses:" dropdown menu currently set to "No Validated Address". Below this are input fields for "SANO:", "SASF:", and "SAST:". Further down are fields for "ROOM:", "FLOOR:", "BLDG:", "AHN:", "ROUTE:", and "BOX:". Below these are fields for "SALOC:" and "SAST: SAZC:". At the bottom of the form area is a "CALA/SAGA:" dropdown menu and a "Select Supplemental:" button. At the very bottom of the window is a navigation bar with buttons for "Print Preview", "E-mail", "Start Over", "Next >>", "Clear", and "Finish".

Unbundled ADSL Loop Qualification - TN Request window

The screenshot shows the same wizard window as above, but with the "TN Request" tab selected. The "Validated Addresses:" dropdown is still "No Validated Address". The "SANO:", "SASF:", and "SAST:" fields are present. The "CALA/SAGA:" dropdown is also present. The "SALOC:" and "SAST: SAZC:" fields are not visible in this view. The navigation bar at the bottom is identical to the previous screenshot.

Unbundled ADSL Loop Qualification - Response window - "N"

Unbundled ADSL Loop Qualification

Request Response

Number of Lines Requested: Quality working telephone numbers

No. of Lines	Result	Description
1	N	Circuit ID, 303 470-3553; Loop Length, 2.281; BT Length, 0; Insert Loss, 6.54; Metal, INTEGRATED PAIR GAIN; # Wires, TWO; Load Type, NONE;
1	N	Circuit ID, 303 470-3443; Loop Length, 2.281; BT Length, 0; Insert Loss, 6.54; Metal, INTEGRATED PAIR GAIN; # Wires, TWO; Load Type, NONE;

Print Preview E-mail **Submit Request** Clear Close

Warning: Applet Window

Unbundled ADSL Loop Qualification - Response window - "Y"

Unbundled ADSL Loop Qualification Facility Availability Request Wizard

Unbundled ADSL Loop Qualification Response

Number of Lines Requested: Quality working telephone numbers

No. of Line	Result	Description
1	Y	Circuit ID, 69.LXda.66200..as; Loop Length, 7.632; BT Length, 0; Insert Loss, 28.93; Metal, COPPER; # Wires, TWO; Load Type, NONE;

Print Preview E-mail Start Over << Previous

Warning: Applet Window

IMA RAW LOOP DATA TOOL:

Qwest is scheduled to add new functionality to Interconnect Mediated Access - Graphical User Interface (IMA-GUI) and Interconnect Mediated Access - Electronic Data Interchange (IMA-EDI) by the end of December 2000. This new functionality will enable Co-Providers to perform raw loop data queries to access raw loop data by loop segment and sub-segment. Co-Providers will use telephone numbers or address information to identify the loops for which they would like raw data information. With this new functionality, Co-providers will be able to the following:

- For each TN, receive data pertaining to the entire loop displayed with a repeating section of data pertaining to loop segments. Each segment will contain a repeating section with data for sub-segments of the loop segment.
- Receive data for performing calculations and determining whether the loop qualifies to carry DSL service.
- Query on more than one TN at a time.

The IMA-GUI screen shots below are examples of the screens that Co-Providers see when performing Unbundled Raw Loop Data queries:

Raw Loop Data Query By Address

Raw Loop Data Query By Address

Query by Address

Validated Addresses:
No Validated Address

SANO: SASF: SASM:

ROOM: FLOOR: BLDG: AHN: ROUTE: BOX:

SALOC: SAST: SAZC:

CALA/SAGA: Selected Supplemental:

Print Preview E-mail Start Over Next >> Clear Finish

Warning: Applet Window

Raw Loop Data Query By TN

**DATE**

July 18, 2000

PRODUCT NAME

Raw Loop Data (RLD) Tool

PRODUCT DEFINITION

The RLD tool provides data in bulk format to the Co-Providers about loop make-up characteristics at the wire center level. The data includes CLLI code, load coil, bridged tap, wire gauge, cable and pair make-up, and similar information on a loop-by-loop basis.

There is a web-site maintained by Qwest where Co-Providers may access the RLD tool. To gain access to the web-site, Co-Providers must obtain a digital certificate from Qwest. The RLD tool is presented in an ASCII text file and can be downloaded to an Excel format or database built by the Co-Provider. The web-site address is <http://ecom.uswest.com>.

The data available via the RLD tool will be loaded/refreshed every month on a wire center basis. There will be approximately 60 wire centers loaded/refreshed each business day with a 20 business day cycle to load/refresh the data for all of Qwest's wire centers.

All information referenced will be provided as is, with any errors and omissions that exist in Qwest's records.

Co-Providers may access the RLD tool 7 days a week, 24 hours a day.

The RLD is available immediately to Co-Providers as they become eligible with a digital certificate.

Data Fields

Qwest will provide the following data via the RI D tool:

1. Telephone Number
2. Wire Center CLLI Code
3. Cable Name
4. Pair Name
5. Terminal Address
6. Segment (e.g. F1, F2, etc.)
7. Sub Segment (e.g. segment 1 of F1)
8. Segment Length
9. Gauge
10. Bridge-Tap Length
11. Length Units
12. Bridge-Tap Offset Distance
13. Load Coil Type
14. Pair Gain
15. Composition of loop
16. MLT Distance
17. House Number
18. Street
19. Unit
20. Floor
21. Building
22. Community (e.g., City)

23. State Code

Raw Data Example:

The RLD tool contains the following data entries. If a specific data item is not available or does not pertain to a particular loop, then the field entry will be blank. For instance, if the loop only consists of F1 and F2, then the entry fields that correspond to F3 through F9 would be empty. Commas separate field entries and an empty field is designated by:

FILE_CREATION_DATE,WIRE_CENTER_CLLI,TELEPHONE_NUMBER,F1_CABLE_NAME,F2_CABLE_NAME,F3_CABLE_NAME,F4_CABLE_NAME,F5_CABLE_NAME,F6_CABLE_NAME,F7_CABLE_NAME,F8_CABLE_NAME,F9_CABLE_NAME,F1_PAIR_NUMBER,F2_PAIR_NUMBER,F3_PAIR_NUMBER,F4_PAIR_NUMBER,F5_PAIR_NUMBER,F6_PAIR_NUMBER,F7_PAIR_NUMBER,F8_PAIR_NUMBER,F9_PAIR_NUMBER,F1_TERMINAL_ID,F2_TERMINAL_ID,F3_TERMINAL_ID,F4_TERMINAL_ID,F5_TERMINAL_ID,F6_TERMINAL_ID,F7_TERMINAL_ID,F8_TERMINAL_ID,F9_TERMINAL_ID,F1_MAKE_UP_DESC,F2_MAKE_UP_DESC,F3_MAKE_UP_DESC,F4_MAKE_UP_DESC,F5_MAKE_UP_DESC,F6_MAKE_UP_DESC,F7_MAKE_UP_DESC,F8_MAKE_UP_DESC,F9_MAKE_UP_DESC,F1_BRIDGE_TAP_OFFSET_DESC,F2_BRIDGE_TAP_OFFSET_DESC,F3_BRIDGE_TAP_OFFSET_DESC,F4_BRIDGE_TAP_OFFSET_DESC,F5_BRIDGE_TAP_OFFSET_DESC,F6_BRIDGE_TAP_OFFSET_DESC,F7_BRIDGE_TAP_OFFSET_DESC,F8_BRIDGE_TAP_OFFSET_DESC,F9_BRIDGE_TAP_OFFSET_DESC,F1_LOAD_COIL_TYPE,F2_LOAD_COIL_TYPE,F3_LOAD_COIL_TYPE,F4_LOAD_COIL_TYPE,F5_LOAD_COIL_TYPE,F6_LOAD_COIL_TYPE,F7_LOAD_COIL_TYPE,F8_LOAD_COIL_TYPE,F9_LOAD_COIL_TYPE,F1_PAIR_GAIN_TYPE,F2_PAIR_GAIN_TYPE,F3_PAIR_GAIN_TYPE,F4_PAIR_GAIN_TYPE,F5_PAIR_GAIN_TYPE,F6_PAIR_GAIN_TYPE,F7_PAIR_GAIN_TYPE,F8_PAIR_GAIN_TYPE,F9_PAIR_GAIN_TYPE,MLT_DISTANCE,HOUSE_NUMBER,STREET_NAME,UNIT,FLOOR,BUILDING,COMMUNITY,STATE_CODE

The loop make-up txt file would appear as follows, the commas separate the fields:

06-19-2000,CHNDAZMA,,25,1330P,,,,,,1086,773,,,,,,X 1330 W PALO VERDE DR,F 1843 W ALAMO DR,,,,,,24NL 23.810kf ,24NL 7.016kf,,,,,,H88,,,,,,NO_PG,NO_PG,,,,,,34800,1846,W ALAMO DR,,,,,
06-19-2000,CHNDAZMA,,25,1330P,,,,,,1086,773,,,,,,X 1330 W PALO VERDE DR,F 1843 W ALAMO DR,,,,,,24NL 7.016kf,,,,,,H88,,,,,,NO_PG,NO_PG,,,,,,34800,1846,W ALAMO DR,,,,,
06-19-2000,CHNDAZMA,,IPG1,1960D,,,,,,1825,355,,,,,,X 1960 N DOBSON RD,2019 W LEMON TREE PL 1174,,,,,,26NL 0.760kf 19NL 0.020kf ,26NL 0.165kf 24NL 0.802kf,,,,,,ISLC96,NO_PG,,,,,,2019,W LEMON TREE

AER

07/18/2000