

Service Performance Indicator Definitions (PID)

CenturyLink QC

ICA Exhibit B – PID Version 10.0

QWEST CORPORATION DBA CENTURYLINK QC'S ("CENTURYLINK QC'S") SERVICE PERFORMANCE INDICATOR DEFINITIONS (PID)

PID Version 10.0

Introduction

CenturyLink QC will report performance results for the service performance indicators defined herein. CenturyLink QC will report separate performance results associated with the services it provides to Competitive Local Exchange Carriers (CLECs) in aggregate (except as noted herein), to CLECs individually and, as applicable, to CenturyLink QC's retail customers in aggregate. Within these categories, performance results related to service provisioning and repair will be reported for the products listed in each definition. Reports for CLECs individually will be subject to agreements of confidentiality and/or nondisclosure.

CenturyLink QC's Service Performance Indicator Definitions

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Electronic Gateway Availability

GA-1 – Gateway Availability – LSR

Purpose: Evaluates the quality of CLEC access to the gateway systems offered by CenturyLink QC for				
	• •			
CLECs to submit LSRs and associated sy				
focusing on the extent they are actually a		EUS.		
Description:		NOTE 1		
GA-1- <name associa<="" gateway="" lsr="" of="" or="" td=""><td></td><td></td></name>				
		ss LSRs, and reports the percentage		
of Scheduled Availability Time the				
		r, and provisioning transactions are		
based on the currently publishe				
website: <u>http://www.centurylink</u>				
Time Gateway is Available to CLECs i	is equal to Scl	heduled Availability Time minus		
Outage Time.				
Scheduled Availability Time is equal to				
Scheduled Down Time is time identifie				
		Notification of Scheduled Down Time		
for routine maintenance and/or upgrac	de work will be	e provided no less than 48 hours in		
advance.				
An outage is a critical or serious loss of				
or component affecting CenturyLink Q				
determined by CenturyLink QC technic				
from the affected customer(s) and/or f				
Reporting Period: One month	Unit of Mea	sure: Percent		
Reporting Comparisons: CLEC	Disaggrega	tion Reporting: Region-wide level.		
aggregate results				
Formula:	·			
([Number of Hours and Minutes Gate	eway or syst	tem is Available to CLECs During		
Reporting Period] ÷ [Number of Hours a		-		
Reporting Period) x 100		, 3		
Exclusions: None				
Product Reporting: Reported by gateway or Standard: Diagnostic				
associated system, for each LSR submit	associated system, for each LSR submittal gateway			
and for each system that facilitates access to the				
LSR gateway(s), to the extent availability is not				
counted as part of the LSR-processing gateway(s).				
Availability: Available Notes:				
(Prior to turn-up of new systems that replace 1. Such as "GA-1-IMA-GUI," "GA-1-				
those addressed in this measurement, XML," NOTE ² or "GA-1-SIA," with other				
	XML	," NOTE 2 or "GA-1-SIA," with other		
parties will work together to establish a ti	ime gatev	"NOTE 2 or "GA-1-SIA," with other ways or systems being limited to		
	ime gatev v those			

GA-3 – Gateway Availability – Repair

Purpose:

Evaluates the quality of CLEC access to the gateway interface offered by CenturyLink QC for CLECs to electronically submit repair trouble tickets, focusing on the extent the gateway is actually available to CLECs.

Description:

GA-3-<Name of Repair Gateway> ^{NOTE 1}: Measures the availability of the gateway interface(s) through which CLECs submit repair troubles and reports the percentage of scheduled availability time the interface is available.

• Scheduled Up Time hours are based on the currently published hours of availability found on the following website:

http://www.centurylink.com/wholesale/cmp/ossHours.html

- Time Gateway is Available to CLECs is equal to Scheduled Availability Time minus Outage Time.
- Scheduled Availability Time is equal to Scheduled Up Time minus Scheduled Down Time.
- Scheduled Down Time is time identified and communicated that the interface is not available due to maintenance and/or upgrade work. Notification of Scheduled Down Time for routine maintenance and/or upgrade work will be provided no less than 48 hours in advance.
- An outage is a critical or serious loss of functionality, attributable to the specified gateway or component, affecting CenturyLink QC's ability to serve its customers. An outage is determined by CenturyLink QC technicians through the use of verifiable data, collected from the affected customer(s) and/or from mechanized event management systems.

Reporting Period: One month	Unit of Measure: Percent
Reporting Comparisons: CLEC aggregate results	Disaggregation Reporting: Region-wide level.

Formula:

Exclusions: None

([Number of Hours and Minutes Gateway is Available to CLECs During Reporting Period] ÷ [Number of Hours and Minutes of Scheduled Availability During Reporting Period]) x 100

Product Reporting: Reported by system, for each repair trouble submittal gateway.	Standard: Diagnostic
Availability: Available (Prior to turn-up of new systems that replace those addressed in this measurement, parties will work together to establish a time frame for reporting and review of the new measure.)	 Notes: Such as "GA-3-EB-TA" or "GA-3- Repair GUI" ^{NOTE 2}, with other gateways or systems being limited to those that replace these gateways. GA-3-Repair GUI replaces the former GA- 6-GUI-Repair PID.

GA-4 – System Availability – ASR

Purpose:

Evaluates the quality of CLEC batch access to electronic systems offered by CenturyLink QC for CLECs to submit ASRs, focusing on the extent the systems are actually available to CLECs.

Description:

GA-4-<Name of ASR-processing System>^{NOTE 1}: Measures the availability of the electronic ASR submittal system and reports the percentage of scheduled availability time the system is available.

- Scheduled Up Time hours are based on the currently published hours of availability found on the following website: <u>http://www.centurylink.com/wholesale/cmp/ossHours.html</u>.
- Time System is Available to CLECs is equal to Scheduled Availability Time minus Outage Time.
- Scheduled Availability Time is equal to Scheduled Up Time minus Scheduled Down Time.
- Scheduled Down Time is time identified and communicated that the system is not available due to maintenance and/or upgrade work. Notification of Scheduled Down Time for routine maintenance and/or upgrade work will be provided no less than 48 hours in advance.
- An outage is a critical or serious loss of functionality, attributable to the specified gateway or component, affecting CenturyLink QC's ability to serve its customers. An outage is determined by CenturyLink QC technicians through the use of verifiable data, collected from the affected customer(s) and/or from mechanized event management systems.

Reporting Period: One month	Unit of Measure: Percent
Reporting Comparisons: CLEC aggregate results	Disaggregation Reporting: Region-wide level.

Formula:

([Number of Hours and Minutes EXACT is Available to CLECs During Reporting Period] ÷ [Number of Hours and Minutes of Scheduled Availability During Reporting Period]) x 100

Exclusions: None

Product Reporting: Reported by system, for each ASR submittal gateway.	Standard: Diagnostic
Availability:Available(Prior to turn-up of new systems that replace those addressed in this measurement, parties will work together to establish a time frame for reporting and review of the new measure.)	Notes: 1. Such as "GA-4-EXACT," with other gateways or systems being limited to those that replace this system.

GA-7 – Timely Outage Resolution following Software Releases

Purpose:

Measures the timeliness of resolution of gateway or system outages attributable to software releases for specified OSS interfaces, focusing on CLEC-affecting software releases involving the specified gateways or systems.

Description:

Measures the percentage of gateway or system outages, which are attributable to OSS system software releases and which occur within two weeks after the implementation of the OSS system software releases, that are resolved ^{NOTE 1} within 48 hours of detection by the CenturyLink QC monitoring group or reporting by a CLEC/co-provider.

- Includes software releases associated with the following OSS interfaces in CenturyLink QC: LSR-processing gateway(s), repair trouble report-processing gateway(s), and ASR-processing system(s) or gateway(s).^{NOTE 2}
- An outage for this measurement is a critical or serious loss of functionality, attributable to the specified gateway or component, affecting CenturyLink QC's ability to serve its customers or data loss ^{NOTE 3} on the CenturyLink QC side of the interface. An outage is determined by CenturyLink QC technicians through the use of verifiable data, collected from the affected customer(s) and/or from mechanized event management systems.
- The outage resolution time interval considered in this measurement starts at the time CenturyLink QC's monitoring group detects a failure, or at the date/time of the first transaction sent to CenturyLink QC that cannot be processed (i.e. lost data), and ends with the time functionality is restored or the lost data is recovered.

Reporting Period:	Monthly	Unit of Measure: Percent		
Reporting Comparisons: CLEC Aggregate		Disaggregation Reporting: Region-wide level.		
48 hours of the time	Formula: [(Total outages detected within two weeks of a Software Release that are resolved within 48 hours of the time CenturyLink QC detects the outage) ÷ (Total number of outages detected within two weeks of Software Releases resolved in the Reporting Period)] x 100			
 Exclusions: Outages in releases prior to any CLEC migrating to the release. Duplicate reports attributable to the same software defect. 				
Product Reporting	Product Reporting: None Standards: Diagnostic			
Availability: Available	 Notes: "Resolved" means that service is restored to the reporting CLEC, as experienced by the CLEC. Such as, "IMA-GUI," "IMA-XML," "CEMR," "EXACT," and "EB-TA," with other gateways or systems being limited to those that replace these gateways/systems. For data loss to be considered for GA-7, a functional acknowledgement must have been provided for the data in question (e.g., LSR ID or trouble ticket number). 			

Pre-Order/Order

PO-1 – Pre-Order/Order Response Times

Purpose:

Evaluates the timeliness of responses to specific preordering/ordering queries for CLECs through the use of CenturyLink QC's Operational Support Systems (OSS). CenturyLink QC's OSS are accessed through the specified gateway interface.

Description:

PO-1-<Gateway Type> ^{NOTE 1}: Measures the time interval between query and response for specified pre-order/order transactions through the electronic interface.

- Measurements are made using a system that simulates the transactions of requesting pre-ordering/ordering information from the underlying existing OSS. These simulated transactions are made through the operational production interfaces and existing systems in a manner that reflects, in a statistically-valid manner, the transaction response times experienced by CLEC service representatives in the reporting period.
- The time interval between query and response consists of the period from the time the transaction request was "sent" to the time it is "received" via the gateway interface.
- A query is an individual request for the specified type of information.

Reporting Perio	od: One month	Unit of Measure: Seconds
Reporting Comparisons: CLEC	Disaggregation Reporting: Re gateway type	gion-wide level. Results are reported by
aggregate.	 to the extent they are offered th 1. Appointment Scheduling (I is required) 2. Service Availability Information 3. Facility Availability 4. Street Address Validation 5. Customer Service Records 6. Telephone Number 7. Loop Qualification Tools 8. [Left intentionally blank to 9. Connecting Facility Assign 10. Meet Point Inquiry Where available through the gate response time, response times for receive the response for the specific the spe	s preserve numbering] ment teway type, in addition to reporting total for each of the above transactions will be access the request screen, and (b) time to ecified transaction. For above transaction a third part (c) accept screen, will be he gateway type. Otherwise,

PO-1 – Pre-Order/Order Response Times (continued)

Formula:

Σ[(Query Response Date & Time) – (Query Submission Date & Time)] ÷ (Number of Queries Submitted in Reporting Period)

Exclusions:

• Rejected requests/errors, and timed out transactions

Product Reporting:	Standards:
None	Diagnostic
Availability: Available	 Notes: Such as "PO-1-XML" or "PO-1-IMA GUI." As additional transactions, currently done manually, are mechanized, they will be measured and added to or included in the above list of transactions, as applicable. Results based on a weighted combination of mechanized system tools used in providing the response(s), as applicable, such as ADSL Loop Qualification and Raw Loop Data Tool. In the event that a measured gateway type is replaced and a specified transaction type is not conducive to measurement via simulated transactions (as defined under "Description" above), interested parties will work together to determine whether and how such transaction(s) can and should be measured.

PO-2 – Electronic Flow-through

Purpose:

Monitors the extent CenturyLink QC's processing of CLEC Local Service Requests (LSRs) is completely electronic, focusing on the degree that electronically-transmitted LSRs flow directly to the service order processor without human intervention or without manual retyping.

Description:

PO-2A - Measures the percentage of all electronic LSRs that flow from the specified electronic gateway interface to the service order processor (SOP) without any human intervention.

Includes all LSRs that are submitted electronically during the reporting period, subject to
exclusions specified below.

PO-2B – Measures the percentage of all flow-through-eligible LSRs ^{NOTE 1} that flow from the specified electronic gateway interface to the SOP without any human intervention.

• Includes all flow-through-eligible LSRs that are submitted electronically during the reporting period, subject to exclusions specified below.

Reporting Period: One month	Unit of Measure: Percent
Reporting Comparisons: CLEC	Disaggregation Reporting: Statewide level (per
aggregate, individual CLEC	multi-state system serving the state).
Formula:	
	Rs that pass from the Gateway Interface to the SOP n) ÷ (Total Number of Electronic LSRs that pass rface)] x 100
PO-2B = [(Number of flow-through-	eligible Electronic LSRs that actually pass from the

PO-2B = [(Number of flow-through-eligible Electronic LSRs that actually pass from the Gateway Interface to the SOP without human intervention) ÷ (Number of flowthrough-eligible Electronic LSRs received through the Gateway Interface)] x 100

Exclusions:

- Rejected LSRs and LSRs containing CLEC-caused non-fatal errors.
- Non-electronic LSRs (e.g., via fax or courier).
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.
- Duplicate LSR numbers.

• Invalid start/stop dates/times.

Product Reporting:		Standards:	
Resale		Diagnostic	
 Unbundled Loops (w 	rith or without Local Number Portability)		
 Local Number Portal 	bility		
Availability: Available	Notes:		
	 The list of LSR types classified as eligible for flow through is contained in the "LSRs Eligible for Flow Through" matrix. This matrix also includes availability for enhancements to flow through. Matrix will be distributed through the CMP process. 		

PO-3 – LSR Rejection Notice Interval

Purpose:

Monitors the timeliness with which CenturyLink QC notifies CLECs that electronic and manual LSRs were rejected.

Description:

Measures the interval between the receipt of a Local Service Request (LSR) and the rejection of the LSR for standard categories of errors/reasons.

- Includes all LSRs submitted through the specified interface that are rejected during the reporting period.
- Standard reasons for rejections are: missing/incomplete/mismatching/unintelligible information, duplicate request or LSR/PON (purchase order number), no separate LSR for each account telephone number affected, no valid contract, no valid end user verification, account not working in CenturyLink QC territory, service-affecting order pending, request is outside established parameters for service, and lack of CLEC response to CenturyLink QC question for clarification about the LSR.
- Included in the interval is time required for efforts by CenturyLink QC to work with the CLEC to avoid the necessity of rejecting the LSR.
- With hours: minutes reporting, hours counted are business hours for manual rejects Business hours are defined as time during normal business hours of the Wholesale Delivery Service Centers, except for PO-3C in which hours counted are workweek clock hours.

Reporting Period: One month		Unit of Meas	ure:	Hours: Minutes
Reporting Comparisons: CLEC aggregate and individual CLEC results Disaggregation Reporting: Statewide • PO-3C, LSRs received via facsimile • PO-3C, LSRs received electronically and rejected manually Formula: • PO-3X, LSRs received electronically and rejected manually				
Σ [(Date and time of Rejection Notice) – (Date and time of LSR receipt)] ÷ (Total number of LSR Rejection Notifications)				
 Exclusions: Records with invalid product codes. Records missing data essential to the calculation of the measurement per the PID. Duplicate LSR numbers. Invalid start/stop dates/times. 				
Product Reporting: Not applicable		andards:	Diag	nostic
Availability: Availab	ole No	otes:		

PO-5 – Firm Order Confirmations (FOCs) On Time

Purpose:

Monitors the timeliness with which CenturyLink QC returns Firm Order Confirmations (FOCs) to CLECs in response to LSRs/ASRs received from CLECs, focusing on the degree to which FOCs are provided within specified intervals.

Description:

Measures the percentage of Firm Order Confirmations (FOCs) that are provided to CLECs within the intervals specified under "Standards" below for FOC notifications.

- Includes all LSRs/ASRs that are submitted through the specified interface or in the specified manner (i.e., facsimile) that receive an FOC during the reporting period, subject to exclusions specified below. (Acknowledgments sent separately from an FOC (are not included.)
- For PO-5A, the interval measured is the period between the LSR received date/time (based on scheduled up time) and CenturyLink QC's response with a FOC notification (notification date and time).
- For PO-5B, 5C, and 5D, the interval measured is the period between the <u>application</u> <u>date and time</u>, as defined herein, and CenturyLink QC's response with a FOC notification (notification date and time).
- "Fully electronic" LSRs are those (1) that are received via an electronic LSR submittal gateway, (2) that involve no manual intervention, and (3) for which FOCs are provided mechanically to the CLEC. NOTE 2
- "Electronic/manual" LSRs are received electronically via an electronic LSR submittal gateway and involve manual processing.
- "Manual" LSRs are received manually (via facsimile) and processed manually.
- ASRs are measured only in <u>business days</u>.
- LSRs will be evaluated according to the FOC interval categories shown in the "Standards" section below, based on the number of lines/services requested on the LSR or, where multiple LSRs from the same CLEC are related, based on the combined number of lines/services requested on the related LSRs.

number of lines/services requested of the related LSI(s.		
Reporting Period: One month		Unit of Measure: Percent
Reporting Comparisons: CLEC aggregate and individual CLEC results	serving the state). Results for this indicator • PO-5A: * FOCs prov • PO-5B: * FOCs prov • PO-5C: * FOCs prov • PO-5D: FOCs * Each of the PO-5A, above will be further - (a) FOCs p Unbundled	ting: Statewide level (per multi-state system r are reported as follows: vided for <u>fully electronic</u> LSRs vided for <u>electronic/manual</u> vided for <u>manual</u> LSRs received via Facsimile. provided for ASRs requesting LIS Trunks. PO-5B and PO-5C measurements listed disaggregated as follows: provided for Resale services provided for Unbundled Loops and specified Network Elements provided for LNP

PO-5 – Firm Order Confirmations (FOCs) On Time (continued)

		· (· · · · · · · · · · · · · · · · · ·	
Formula: PO-5A = {[Count of LSRs for which the original FOC's "(FOC Notification Date & Time) - (LSR received date/time (based on scheduled up time))" is within 20 minutes] ÷ (Total Number of original FOC Notifications transmitted for the service category in the reporting period)} x 100			
Date & Time) service catego	- (Application Date & Time)"	ich the original FOC's "(FOC ' is within the intervals specifi er of original FOC Notification eriod)} x 100	ed for the
Exclusions:			
 LSRs/ASRs involv as specified in the projects. 	"Standards" section below, ds and holidays. (Except for	B) handling based on quanti or service/request types, dee PO-5A which only excludes	emed to be
 LSRs with CLEC-r 	equested FOC arrangemen	ts different from standard FO	C
arrangements.			
 Records with inval 	id product codes.		
	•	ion of the measurement per t	he PID.
 Duplicate LSR nur 			
 Invalid start/stop d 			
Additional PO-5D exc			
	id application or confirmatio	n dates.	
Product Reporting:			
• For PO-5A, -5B	• minutes NOTE 2	For PO-5A (all): 95% wi	thin 20
and -5C: (a) Resale	• For PO-5B (all):	90% within standard FOC i (specified below)	ntervals
services	• For PO-5C (manual):	90% within standard FOC i	
(b) Unbundled		specified below PLUS 24 h	
Loops and specified Unbundled Network			
Elements. (c) LNP	Standard FOC Intervals for PO-5B and PO-5C		
	Product Group NOTE 1		FOC Interval
Trunks.	Residence POTS	1-39 lines	
	LNP	1-50 lines	
	Unbundled Loops	1-24 loops	24 hours
	Analog Loop	1-24 10005	24 110015
	Analog Loop Sub-Loop 1-24 sub-loops		
	[included in Product R		

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	Enhanced Extended Loops-DS1 (EEL-DS1) 1-24 circuits [included in Product Reporting group (b)]	48 hours
	Unbundled Loops w/Facility Check ^(NOTES 2, 3) 1-24 loops 2-Wire Non-Loaded ADSL-Compatible XDSL-I Capable DS1-Capable	72 hours
	For PO-5D:LIS Trunks1-240 trunk circuits	8 business days
	 Notes: LSRs with quantities above the highest number specified for each product type are considered ICB. Unbundled Loop with Facility Check can be processed electronically; however, because this category always carries a 72-hour FOC interval the FOC results for this product will appear in PO-5B if received electronically or PO-5C if received manually. Unbundled Loop with Facility Check will not add an additional 24 hours to the 72-hour interval if the LSR is submitted manually. 	
Availability: Available		

PO-5 – Firm Order Confirmations (FOCs) On Time (continued)

Timely, Joonardy, Notices \frown

PO-9 – Timely Jeopardy Notices			
Purpose:			
When original due dates are missed, measures the extent to which CenturyLink QC notifies			
customers in advance of jeopardized due d	customers in advance of jeopardized due dates.		
Description:			
 Includes all inward orders (Change, New date by CenturyLink QC and which are 	which advance jeopardy notification is provided. w, and Transfer order types) assigned a due completed/closed in the reporting period that rder types included in this measurement consist		
of all C orders representing inward activ			
	otifications provided on or after the original due minator of the formula but will not be counted in		
Reporting Period: One month	Unit of Measure: Percent		
Reporting Comparisons: Disaggreg	ation Reporting: Statewide level.		
CLEC aggregate, individual (This meas	the categories shown under Product Reporting.)		
Formula:			
[(Total missed due date orders completed i	n the reporting period that received jeopardy		
notification in advance of original due date)	+ (Total number of missed due date orders		
completed in the reporting period)] x 100			
Exclusions:			
• Orders missed for customer reasons.			
Records with invalid product codes.			
Records involving official company serv			
Records with invalid due dates or applic	<u>ation dates</u> .		
• Records with invalid completion dates.			
Records with invalid product codes.			
Records missing data essential to the calculation of the measurement per the PID.			
Product Reporting:	Standards: Diagnostic, with retail		
	comparative results also reported as follows:		
A Non-Designed Services	A Parity with Retail POTS		
B Unbundled Loops (with or without	B Parity with Retail POTS		
Number Portability)			
C LIS Trunks	C Parity with Feature Group D (FGD) Services		
Availability:	Notes:		
	NOIES.		
Available	NOLES.		
	Notes.		

OP-3 – Installation Commitments Met

Purpose:

Evaluates the extent to which CenturyLink QC installs services for Customers by the scheduled due date.

Description:

Measures the percentage of orders for which the scheduled due date is met.

- All inward orders (Change, New, and Transfer order types) assigned a due date by CenturyLink QC and which are completed/closed during the reporting period are measured, subject to exclusions specified below. Change order types included in this measurement consist of all C orders representing <u>inward activity</u>. Also included are orders with customer-requested due dates longer than the standard interval.
- Completion date on or before the Applicable Due Date recorded by CenturyLink QC is counted as a met due date. The Applicable Due Date is the original due date or, if changed or delayed by the customer, the most recently revised due date, subject to the following: If CenturyLink QC changes a due date for CenturyLink QC reasons, the Applicable Due Date is the customer-initiated due date, if any, that is (a) subsequent to the original due date and (b) prior to a CenturyLink QC-initiated, changed due date, if any.

Reporting Period: One month		Unit of Measure: Percent
Reporting	Disaggregation Reporting: Statewide level.	
Comparisons:	Results for product/services listed in Product Reporting under "MSA-	
CLEC	Type Disaggregation" will be reported according to orders involving:	
aggregate,	OP-3A Dispatches within MSAs;	
individual	OP-3B Dispatches outside MSAs; and	
CLEC and	OP-3C No dispatches.	
CenturyLink	• Results for products/services listed in Product Reporting under "Zone-	
QC Retail	type Disaggregation" will be disaggregated according to installations:	
results	OP-3D In Interval Zone 1 areas; and	
	OP-3E In <u>Ir</u>	terval Zone 2 areas.

Formula:

[(Total Orders completed in the reporting period on or before the Applicable Due Date) \div (Total Orders Completed in the Reporting Period)] x 100

Exclusions:

- Disconnect, From (another form of disconnect), and Record order types.
- Due dates missed for standard categories of customer and non-CenturyLink QC reasons. Standard categories of customer reasons are: previous service at the location did not have a customer-requested disconnect order issued, no access to customer premises, and customer hold for payment. Standard categories of non-CenturyLink QC reasons are: Weather, Disaster, and Work Stoppage.
- Records involving official company services.
- Records with invalid due dates or application dates.
- Records with invalid completion dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

OP-3 – Installation Commitments Met (continued)

Product Reporting:	Standards:
MSA-Type Disaggregation -	
Resale Residential single line service	Parity with retail service
Sub-Loop Unbundling	90%
Zone-Type Disaggregation -	
LIS Trunks	Parity with Feature Group D (aggregate)
Unbundled Loops:	
Analog Loop	90%
2-Wire Non-Loaded Loop	90%
DS1-Capable Loop	Parity with retail DS1 Private Line
xDSL-I Capable Loop	90%
ADSL-Compatible Loop	90%
Enhanced Extended Loops-DS1 (EEL-DS1)	90%
Availability: Notes:	
Available	

OP-4 – Installation Interval

Purpose:

Evaluates the timeliness of CenturyLink QC's installation of services for customers, focusing on the average time to install service.

Description:

Measures the average interval (in <u>business days</u>)^{NOTE 1} between the <u>application date</u> and the completion date for service orders accepted and implemented.

- Includes all inward orders (Change, New, and Transfer order types) assigned a due date by CenturyLink QC and which are completed/closed during the reporting period, subject to exclusions specified below. Change order types for additional lines consist of all C orders representing <u>inward activity</u>.
- Intervals for each measured event are counted in whole days: the application date is day zero (0); the day following the application date is day one (1).
- The Applicable Due Date is the original due date or, if changed or delayed by the customer, the most recently revised due date, subject to the following: If CenturyLink QC changes a due date for CenturyLink QC reasons, the Applicable Due Date is the customer-initiated due date, if any, that is (a) subsequent to the original due date and (b) prior to a CenturyLink QC-initiated, changed due date, if any. ^{NOTE 2}
- Time intervals associated with customer-initiated due date changes or delays occurring after the Applicable Due Date, as applied in the formula below, are calculated by subtracting the latest CenturyLink QC-initiated due date, if any, following the Applicable Due Date, from the subsequent customer-initiated due date, if any.

Reporting Period: One month		Unit of Measure: Average Business Days
Reporting	Disaggregation Reporting: Statewide level.	
Comparisons:	Results for product/s	ervices listed in Product Reporting under "MSA-
CLEC	Type Disaggregation" will be reported according to orders involving:	
aggregate,	OP-4A Dispatches within MSAs;	
individual	OP-4B Dispatches outside MSAs; and	
CLEC and	OP-4C No d	dispatches.
CenturyLink	• Results for products/services listed in Product Reporting under "Zone-	
QC Retail	type Disaggregation" will be disaggregated according to installations:	
results	OP-4D In <u>In</u>	terval Zone 1 areas; and
	OP-4E In <u>In</u>	terval Zone 2 areas.

Formula:

 Σ [(Order Completion Date) – (Order Application Date) – (Time interval between the Original Due Date and the Applicable Date) – (Time intervals associated with customer-initiated due date changes or delays occurring after the Applicable Due Date)] ÷ Total Number of Orders Completed in the reporting period

<u>Explanation</u>: The average installation interval is derived by dividing the sum of installation intervals for all orders (in business days)^{NOTE 1} by total number of service orders completed in the reporting period.

OP-4 – Installation Interval (continued)

Exclusions:

- Orders with customer requested due dates greater than the current standard interval.
- Disconnect, From (another form of disconnect), and Record order types.
- Records involving official company services.
- Records with invalid due dates or application dates.
- Records with invalid completion dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

Product Reporting:		Standards:
MSA-Type Disaggregation -		
Resale Residential single line service		Parity with retail service
	Unbundling	6 days
Zone-Type Di	saggregation -	· · · · ·
LIS Trunks		Parity with Feature Group D (aggregate)
Unbundled	Loops:	
Analog		6 days
2-Wire	Non-Loaded Loop	6 days
DS1-Ca	apable Loop	5.5 days
		6 days
		6 days
Availability: Available	xDSL-I Capable Loop 6 days ADSL-Compatible Loop 6 days • Enhanced Extended Loops-DS1 (EEL-DS1) 6 days Availability: Notes:	

OP-5 – New Service Installation Quality

Purpose:

Purpose:		
Evaluates the quality of ordering and installing new services (inward line service orders),		
focusing on the percentage of newly-installed service orders that are free of		
CLEC/customer-initiated trouble reports du		
calendar days following installation comple		
QC's resolution of such conditions with res		
Description:		
Measures the percentage of inward line se NOTE 2 within 30 calendar days of installation	n completion, subject to	o exclusions below.
 Orders for new services considered in a indicator are all inward line service order Change (C-type) orders for additional line Change order types considered in thes representing inward activity. 	ers completed in the rep nes/circuits, subject to	porting period, including exclusions shown below.
 Orders for new service installations inc CLEC, and same CLEC converting bet 	•	il to CLEC, CLEC to
 Repair trouble reports include both out such as features on a line that are miss subject to exclusions shown below. 	sing or do not function p	properly upon conversion,
 Repair trouble reports are defined as CLEC/customer notifications to CenturyLink QC of out-of-service and other service affecting conditions for which CenturyLink QC opens repair tickets in its maintenance and repair management and tracking systems ^{NOTE 3} that are closed in the reporting period or the following month, ^{NOTE 4} subject to exclusions shown below. ^{NOTE 5} 		
 CenturyLink QC is able to open repair to CLECs/customers once the service or 		
Reporting Period: One month, reported in		Unit of Measure:
first appear in reports one month later than		Percent
measurements that are not reported in arre		rereent
cover the 30-day period following installation		
Reporting Comparisons: CLEC		orting: Statewide level
aggregate, individual CLEC and		biting. Statewide level
CenturyLink QC Retail results		
Formula:		
(Number inward line service orders completed in the reporting period – Number of inward		
line service orders with any repair trouble reports as specified above) ÷ (Number of inward		
line service orders completed in the reporting period) x 100		
Exclusions:		
 Repair trouble reports attributable to CLEC or coded to non-CenturyLink QC, e.g.: Customer Action, Non-Telco Plant, Trouble Beyond the Network Interface, Miscellaneous – Non-Dispatch, CPE, Customer Instruction, Carrier, Alternate Provider, Reports from other than the CLEC/customer that result in a charge if dispatched, Carrier Action (IEC), Commercial power failure, Customer requested service order activity, and Other non-Contund ink OC 		
 Other non-CenturyLink QC. Repair reports coded to disposition codes for referral to another department (i.e., for 		
	les for referral to anoth	er denartment (i.e. for

OP-5 – New Service Installation Quality (continued)

non-repair ticket resolutions of non-installation-related problems, except cable cuts, which are not excluded).

- Repair or provisioning trouble reports related to service orders captured as misses under measurements OP-13 (Coordinated Cuts Timeliness) or OP-17 (LNP Timeliness).
- Subsequent repair or provisioning trouble reports of any trouble on the installed service before the original repair or provisioning trouble report is closed.
- Service orders closed in the reporting period with App Dates earlier than eight months prior to the beginning of the reporting period.
- Information tickets generated for internal CenturyLink QC system/network monitoring purposes.
- Disconnect, From (another form of disconnect) and Record order types. When out of service or service affecting problems are reported to the call center on conversion and move requests, the resulting call center ticket will be included in the calculation of the numerator in association with the related inward order type even when the call center ticket reflects the problem was caused by the Disconnect or From order.
- Records involving official CenturyLink QC company services.
- Records missing data essential to the calculation of the measurement as defined herein.

Product Reporting Categories: Standards: Parity with retail service

 As specifie percentage each bulle 	ed below – one e result reported for ted category under easurements shown.	(Where parity comparisons involve multiple service varieties in a product category, weighting based on the retail analogue volumes may be used if necessary to create a comparison that is not affected by different proportions of wholesale and retail analogue volumes in the same reporting category.)	
Product Rep	orting:		Standards:
Resale Re	sidential single line se	rvice	Parity with retail service
Sub-Loop	Unbundling		Parity with retail DS1 Private Line
Unbundled	Loops:		
Analog	Loop		Parity with retail Res & Bus POTS with dispatch
2-Wire	Non-Loaded Loop		Parity with retail ISDN BRI (designed)
	apable Loop		Parity with retail DS1
xDSL-I	Capable Loop		Parity with retail DS1 Private Line
ADSL-	Compatible Loop		Parity with retail ISDN BRI (designed)
Enhanced I	Extended Loops-DS1 (El	EL-DS1	Parity with retail DS1 Private Line
LIS Trunks	6		Parity with Feature Group D (aggregate)
Availability: Available	1. The specified Change order types representing inward activity exclude		

OP-5 – New Service Installation Quality (continued)

3. CenturyLink QC's repair management and tracking systems obtain the
repair report data for this measurement. Not included are Call Center
Database systems supporting call centers in logging calls from
customers regarding problems or other inquiries.
4. The "following month" includes also the period of a few <u>business days</u>
(typically four or five) afterward, up to the time when CenturyLink QC
pulls the repair data to begin processing results for this measurement.
5. Includes repair and provisioning trouble reports generated by new
processes that supersede or supplement existing processes for
submitting repair and provisioning trouble reports as specified in
CenturyLink QC's documented or agreed upon procedures.
6. Sub-Loop Unbundling standard: When CLEC order volumes of this
element exceed 10 per month, CLEC and CenturyLink QC may work
together to identify an applicable benchmark.
5 , 11 , 12 , 14

OP-8 – Number Portability Timeliness

OP-8 – Number Portability Timeliness			
Purpose:			
Evaluates the timeliness of cutovers of local	number portability (LNP).		
Description:			
•	lination (percent): Measures the percentage of		
88 1	to the scheduled start time for the loop.		
	bundled loops that are completed/closed during		
the reporting period are measured, sub	•		
•	rdination (percent): Measures the percentage of a Due Time or scheduled start time for the LNP		
 All orders for LNP for which coordination 	on with a loop was not requested that are		
completed/closed during the reporting coordinated with other than CenturyLin	period are measured (including standalone LNP k QC-provided Unbundled Loops and non-		
coordinated, standalone LNP), subject			
	P-8B and -8C), "trigger" refers to the "10-digit te (LSA) that is set or translated by CenturyLink		
	onfirmed appointment time (as stated on the		
	case of LNP cutovers coordinated with loops,		
	ment will be no later than the "lay" time for the		
loop.			
•	nit of Measure: Percent of triggers set on time		
Reporting Comparisons: CLEC Di			
aggregate and individual CLEC results			
Formula:			
cutover) ÷ (Total Number of LNP	ore the scheduled time for the coordinated loop activations coordinated with unbundled loops		
completed)] x 100			
OP-8C = [(Number of LNP triggers set before the Frame Due Time or Scheduled Start			
Time) ÷ (Total Number of LNP activations without loop cutovers completed)] x 100			
Exclusions:			
CLEC-caused delays in trigger setting.			
LNP requests that do not involve automatic triggers.			
LNP requests for which the records used as sources of data for these measurements			
have the following types of errors:			
Records with no PON (purchase order number) or STATE.			
Records where triggers cannot be set due to switch capabilities.			
Records with invalid due dates, <u>application dates</u> , or start dates.			
Records with invalid completion dates.			
• Records missing data essential to the calculation of the measurement per the PID.			
Invalid start/stop dates/times or invalid frame due or scheduled date/times.			
Product Reporting: None Standard: 95%			
Availability: Available Notes:			

OP-15 – Interval for Pending Orders Delayed Past Due Date

Purpose:

Evaluates the extent to which CenturyLink QC's pending orders are late, focusing on the average number of days the pending orders are delayed past the Applicable Due Date, as of the end of the reporting period.

of the end of the reporting period.		
Description:		
OP-15A – Measures the average number of <u>business days</u> that pending orders are delayed		
beyond the Applicable Due Date for reasons attributed to CenturyLink QC.		
 Includes all pending inward orders (Ch 	ange, New, and T	ransfer order types) for which
the Applicable Due Date recorded by C	enturyLink QC has	s been missed, subject to
exclusions specified below. Change or	der types included	in this measurement consist of
all "C" orders representing inward activity	<u>ity</u> .	
• The Applicable Due Date is the original	due date or, if cha	anged or delayed by the
customer, the most recently revised due	e date, subject to t	the following: If CenturyLink QC
changes a due date for CenturyLink QC		
customer-initiated due date, if any, that	is (a) subsequent	to the original due date and (b)
prior to a CenturyLink QC-initiated, cha	nged due date, if a	any. NOTE 1
 Time intervals associated with custome 	er-initiated due date	e changes or delays occurring
after the Applicable Due Date, as applied		
subtracting the latest CenturyLink QC-i	nitiated due date, i	if any, following the Applicable
Due Date, from the subsequent custom	er-initiated due da	ate, if any. Note the
OP-15B – Reports the number of pending orders measured in the numerator of OP-15A		
	0	
that were delayed for CenturyLink QC fa	cility reasons.	
	cility reasons.	:
that were delayed for CenturyLink QC fa	cility reasons. Unit of Measure OP-15A – Averag	e: ge Business Days ^{NOTE 2}
that were delayed for CenturyLink QC fa Reporting Period: One month	cility reasons. Unit of Measure OP-15A – Averag	e: ge Business Days ^{NOTE 2} er of orders pending facilities
that were delayed for CenturyLink QC fa Reporting Period: One month Reporting Comparisons:	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb	ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting :
that were delayed for CenturyLink QC fa Reporting Period: One month Reporting Comparisons: CLEC aggregate, individual CLEC, Cent	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb	e: ge Business Days ^{NOTE 2} er of orders pending facilities
that were delayed for CenturyLink QC fa Reporting Period: One month Reporting Comparisons: CLEC aggregate, individual CLEC, Cent Formula:	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail	e: ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = \sum [(Last Day of Reporting Period	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable [ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order)
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = Σ[(Last Day of Reporting Period – (Time intervals associated without)	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable E th customer-initiate	ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order) ed due date changes or delays
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = Σ[(Last Day of Reporting Period – (Time intervals associated with occurring after the Applicable D	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable E th customer-initiate Oue Date)] ÷ (Total	ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order) ed due date changes or delays Number of Pending Orders
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = ∑[(Last Day of Reporting Perior – (Time intervals associated wird occurring after the Applicable D Delayed for CenturyLink QC resonance of the second	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable E th customer-initiate Oue Date)] ÷ (Total asons as of the las	ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order) ed due date changes or delays Number of Pending Orders st day of Reporting Period)
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = ∑[(Last Day of Reporting Period – (Time intervals associated with occurring after the Applicable D Delayed for CenturyLink QC read OP-15B = Count of pending orders measured	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable I th customer-initiate oue Date)] ÷ (Total asons as of the las sured in numerator	ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order) ed due date changes or delays Number of Pending Orders st day of Reporting Period)
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = ∑[(Last Day of Reporting Period – (Time intervals associated with occurring after the Applicable D Delayed for CenturyLink QC reason OP-15B = Count of pending orders meason for CenturyLink QC facility reason	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable I th customer-initiate oue Date)] ÷ (Total asons as of the las sured in numerator	ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order) ed due date changes or delays Number of Pending Orders st day of Reporting Period)
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = ∑[(Last Day of Reporting Perior – (Time intervals associated wire occurring after the Applicable D Delayed for CenturyLink QC resonant OP-15B = Count of pending orders meass for CenturyLink QC facility reass Exclusions:	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable E th customer-initiate oue Date)] ÷ (Total asons as of the las sured in numerator cons	ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order) ed due date changes or delays Number of Pending Orders st day of Reporting Period) r of OP-15A that were delayed
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = ∑[(Last Day of Reporting Period – (Time intervals associated with occurring after the Applicable D Delayed for CenturyLink QC resonant OP-15B = Count of pending orders meases for CenturyLink QC facility reases Exclusions: • Disconnect, From (another form of disconter)	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable I th customer-initiate oue Date)] ÷ (Total asons as of the las sured in numerator cons sconnect) and Rec	ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order) ed due date changes or delays Number of Pending Orders st day of Reporting Period) r of OP-15A that were delayed
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = ∑[(Last Day of Reporting Period – (Time intervals associated with occurring after the Applicable D Delayed for CenturyLink QC read OP-15B = Count of pending orders mease for CenturyLink QC facility rease Exclusions: • Disconnect, From (another form of diaded)	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable E th customer-initiate Due Date)] ÷ (Total asons as of the lass sured in numerators sons sconnect) and Rec	ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order) ed due date changes or delays Number of Pending Orders st day of Reporting Period) r of OP-15A that were delayed
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = ∑[(Last Day of Reporting Period – (Time intervals associated with occurring after the Applicable D Delayed for CenturyLink QC read OP-15B = Count of pending orders meases for CenturyLink QC facility reases Exclusions: • Disconnect, From (another form of dial • Records involving official company set • Records with invalid due dates or apprention	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable E th customer-initiate Due Date)] ÷ (Total asons as of the lass sured in numerators sons sconnect) and Rec	ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order) ed due date changes or delays Number of Pending Orders st day of Reporting Period) r of OP-15A that were delayed
that were delayed for CenturyLink QC fa Reporting Period : One month Reporting Comparisons: CLEC aggregate, individual CLEC, Center Formula: OP-15A = ∑[(Last Day of Reporting Period – (Time intervals associated with occurring after the Applicable D Delayed for CenturyLink QC read OP-15B = Count of pending orders mease for CenturyLink QC facility rease Exclusions: • Disconnect, From (another form of diaded)	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable E th customer-initiate Due Date)] ÷ (Total asons as of the lass sured in numerators sconnect) and Rec ervices. Dication dates.	e: ge Business Days ^{NOTE 2} er of orders pending facilities Disaggregation Reporting: Statewide Due Date of Late Pending Order) ed due date changes or delays Number of Pending Orders st day of Reporting Period) r of OP-15A that were delayed

Product Repo	rting:	Standards: Diagnostic, with retail
		comparatives also reported as specified below
Resale Residential single line service		Diagnostic (Expectation: Parity with retail service)
Sub-Loop Unbundling		Diagnostic
LIS Trunks		Diagnostic (Expectation: Parity with Feature Group D (aggregate)) (separately reported)
Unbundled L	.oops:	
Analog Lo	•	Diagnostic (Expectation: Parity with retail Res and Bus POTS with dispatch)
2-Wire No	n-Loaded Loop	Diagnostic (Expectation: Parity with retail ISDN BRI (designed))
DS1-Capa	able Loop	Diagnostic (Expectation: Parity with retail DS1)
xDSL-I Ca	apable Loop	Diagnostic
	mpatible Loop	Diagnostic (Expectation: Parity with retail ISDN BRI (designed))
 Enhanced E DS1) 	Extended Loops-DS1 (EEL-	Diagnostic
Availability: Available	successive customer-ini point when a CenturyLin point, the Applicable Du changes) as the date on QC-initiated due date ch QC-initiated due date ch changes or delays are n as indicated in the formut as stated in the descript multiple CenturyLink QC method for calculating d CenturyLink QC-initiated initiated due date chang each pairing of CenturyL summed and then subtrat this approach is that Ce counted in the reported intervals are not counted 2. For OP-15A, Saturday is dispatched orders for Re orders in the retail analo other non-dispatched pr	on, the Applicable Due Date can change, per tiated due date changes or delays, up to the ok QC-initiated due date change occurs. At that e Date becomes fixed (i.e., with no further of which it was set prior to the first CenturyLink hange, if any. Following the first CenturyLink hange, any further customer-initiated due date neasured as time intervals that are subtracted ula. These delay time intervals are calculated ion. (Though infrequent, in cases where C-initiated due date changes occur, the stated elay intervals is applied to each pair of d due date change and subsequent customer- e or delay. The intervals thus calculated from Link QC and customer-initiated due dates are acted as indicated in the formula.) The result of nturyLink QC-initiated impacts on intervals are interval, and customer-initiated impacts on d in the reported interval. s counted as a business day for all non- esale Residence, as well as for non-dispatched bogues specified above as standards. For all oducts and for all dispatched products under t counted as a business day.

OP-15 – Interval for Pending Orders Delayed Past Due Date (continued)

Maintenance and Repair

MR-5 – Troubles Cleared within Specified Intervals

Purpose:

Evaluates timeliness of repair for specified services, focusing on all trouble reports of all types (including out of service and service affecting troubles, as set forth herein) and on the number of such trouble reports cleared within the specified intervals (i.e., 4 or 24 hours).

Description:

Measures the percentage of trouble reports for specified services that are cleared within 4 or 24 hours of receipt of trouble reports from CLECs or from retail customers.

- Includes all trouble reports (out of service or all troubles, as specified under product reporting below), closed during the reporting period, which involve a specified service, subject to exclusions specified below.
- Time measured is from date and time that CenturyLink QC is first notified of the trouble by CLEC to date and time trouble is cleared.

Reporting Period: One month		e month Unit of Measure: Percent	
Reporting	Disaggregation Reporting: Statewide level.		
Comparisons: CLEC	Results for listed products will be disaggregated according to		
aggregate, individual	trouble reports:		
CLEC, and CenturyLink	MR-5A Zone-type disaggregation In Interval Zone 1 areas		
QC Retail results	MR-5B Zone-type disaggregation In Interval Zone 2 areas		
	MR-5	X For Resale Business and Single Line and	
		SubLoops	

Formula:

[(Number of Trouble Reports closed in the reporting period that are cleared within interval specified herein) \div (Total Trouble Reports closed in the reporting period)] x 100

Exclusions:

- Trouble reports coded to non-CenturyLink QC causes or dispositions, e.g., Customer Action, Non-Telco Plant, Trouble Beyond the Network Interface, Miscellaneous Non-Dispatch, Carrier Action (IEC) and Customer Provided Equipment (CPE).
- Subsequent trouble reports of any trouble before the original trouble report is closed.
- Information tickets generated for internal CenturyLink QC system/network monitoring purposes.
- Time delays due to "no access" are excluded from repair time.
- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.
- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

MR-5 – Troubles Cleared within Specified Intervals (continued)

Product Reporting:	Standards:	
Zone-Type Disaggregation – All Troubles Cleared within 4 Hours		
LIS Trunks	Parity with Feature Group D (aggregate)	
Unbundled Loops		
DS1-Capable Loop	Parity with retail DS1	
2-Wire Non-Loaded Loop	Diagnostic (no retail comparison)	
xDSL-I Capable Loop	Diagnostic (no retail comparison)	
ADSL-Compatible Loop	Diagnostic (no retail comparison)	
Enhanced Extended Loops-DS1 (EEL-DS1)	Parity with retail DS1 Private Line	
Non-disaggregated Reporting – Out of Service Cleared within 24 Hours		
Resale Business Single Line Service	Diagnostic (Expectation: parity with retail)	
SubLoops	Diagnostic (Expectation: parity with retail	
	RES and BUS POTS)	
Availability: Available	Notes:	

MR-6 – Mean Time to Restore

MR-6 – Mean Time to Restore		
Purpose: Evaluates timeliness of repair, focusing how long it takes to restore services to proper		
operation.		
Description:		
Measures the tim	ne actually taken to clear t	rouble reports.
 Includes all tr specified belo 	•	g the reporting period, subject to exclusions
 Includes customer direct reports, customer-relayed reports, and test assist reports that result in a trouble report. 		
 Time measured is from date and time that CenturyLink QC is first notified of the trouble by CLEC to date and time trouble is cleared. 		
Reporting Perio	Reporting Period: One month Unit of Measure: Hours and Minutes	
Reporting	Disaggregation Report	ing: Statewide level.
Comparisons: CLEC aggregate,	 Results for product/services listed in Product Reporting under "MSA- Type Disaggregation" will be reported according to trouble reports involving: 	
individual	J. J	atches within MSAs;
CLEC, and	MR-6B Dispatches outside MSAs; and	
CenturyLink	MR-6C No dispatches.	
QC Retail results	 Results for products/services listed in Product Reporting under "Zone-type Disaggregation" will be disaggregated according to trouble reports involving: 	
		terval Zone 1 areas; and
		terval Zone 2 areas.
Formula:		
\sum [(Date & Time Trouble Report Cleared) – (Date & Time Trouble Report Opened)] ÷ (Total number of Trouble Reports closed in the reporting period)		

Exclusions:

- Trouble reports coded to non-CenturyLink QC causes or dispositions, e.g., Customer Action, Non-Telco Plant, Trouble Beyond the Network Interface, Miscellaneous – Non-Dispatch, non-CenturyLink QC, CPE, Customer Instruction, Carrier, Alternate Provider, and Carrier Action (IEC).
- Subsequent trouble reports of any trouble before the original trouble report is closed.
- Trouble reports coded as No Trouble Found or Test Okay and with durations of less than or equal to 1 hour.
- Information tickets generated for internal CenturyLink QC system/network monitoring purposes.
- Time delays due to "no access," as applicable, are excluded from repair time for products/services listed in Product Reporting under "Zone-type Disaggregation."
- For products listed for MSA-type disaggregation, trouble reports involving a "no access" delay.
- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.

MR-6 – Mean Time to Restore (Continued)

- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

• Records missing data essential to the calculation of the measurement per the PID.		
Product Reporting:		Standards:
MSA-Type Disaggregati	on	
Resale Residential sing	gle line service	Parity with retail service
Sub-Loop Unbundling		Parity with Retail RES and BUS POTS
Zone-Type Disaggregat	ion -	
LIS Trunks		Parity with Feature Group D (aggregate)
Unbundled Loops:		
Analog Loop		Parity with retail Res and Bus POTS
2-Wire Non-Loade	d Loop	Parity with retail ISDN BRI (designed)
DS1-Capable Loop		Parity with retail DS1 Private Line
xDSL-I Capable Loop		Parity with retail DS1 Private Line
ADSL-Compatible Loop		Parity with retail ISDN BRI (designed)
Enhanced Extended Loops-DS1 (EEL-DS1)		Parity with retail DS1 Private Line
Availability: Available Notes:		
	1. Should the standard repair interval for SubLoops be changed	
	to 4 hours, as applicable to interconnection agreements	
	(ICAs) of all CLECs opted into the CenturyLink QC	
	performance assurance plan (Exhibit K of ICAs), the retail comparative will become "Retail DS1 Private Line."	
		Some Reidii DST Privale Line.

MR-7 – Repair Repeat Report Rate

ccuracy of repair actions, focusing on the number of <u>repeated trouble</u> for the same line/circuit within a specified period (30 calendar days).
rcentage of trouble reports that are repeated within 30 days on end user
rouble reports closed during the reporting period that have a repeated received within thirty (30) days of the initial trouble report for the same rdless of whether the report is about the same type of trouble for that ect to exclusions specified below. g same service CenturyLink QC will compare the end user telephone cuit access code of the initial trouble reports closed during the reporting ports received within 30 days of when the initial trouble report closed. rts due to CenturyLink QC network or system causes, customer-direct and yed reports. reeriod applied in the numerator of the formula below is from the date and initial trouble report is closed to the date and time that the next, or "repeat" is received (i.e., opened). d: One month, reported in arrears (i.e., ar in reports one month later than results for nat are not reported in arrears), in order to period following the initial trouble report. Unit of Measure: Percent
 Disaggregation Reporting: Statewide level. Results for product/services listed in Product Reporting under "MSA-Type Disaggregation" will be reported according to trouble reports involving: MR-7A Dispatches within MSAs; MR-7B Dispatches outside MSAs; and MR-7C No dispatches. Results for products/services listed in Product Reporting under "Zone-type Disaggregation" will be disaggregated according to trouble reports involving: MR-7D In Interval Zone 1 areas; and MR-7E In Interval Zone 2 areas.

Action, Non-Telco Plant, Trouble Beyond the Network Interface, Miscellaneous – Non-Dispatch, non-CenturyLink QC, CPE, Customer Instruction, Carrier, Alternate Provider, and Carrier Action (IEC).

MR-7 – Repair Repeat Report Rate (Continued)

- Subsequent trouble reports of any trouble before the original trouble report is closed.
- Information tickets generated for internal CenturyLink QC system/network monitoring purposes.
- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.
- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

Product Reporting:	Standards:
MSA-Type Disaggregation -	
Resale Residential single line service	Parity with retail service
Sub-Loop Unbundling	Retail DS1 Private Line
Zone-Type Disaggregation -	
LIS Trunks	Parity with Feature Group D (aggregate)
Unbundled Loops:	
Analog Loop	Parity with retail Res and Bus POTS
2-Wire Non-Loaded Loop	Parity with retail ISDN BRI (designed)
DS1-Capable Loop	Parity with retail DS1 Private Line
xDSL-I Capable Loop	Parity with retail DS1 Private Line
ADSL-Compatible Loop	Parity with retail ISDN BRI (designed)
Enhanced Extended Loops-DS1 (EEL-DS1)	Parity with retail DS1 Private Line
Availability: Available Notes:	

MR-8 – Trouble Rate

Purpose:

Evaluates the overall rate of trouble reports as a percentage of the total installed base of the service or element.

Description:

Measures trouble reports by product and compares them to the number of lines in service.

- Includes all trouble reports closed during the reporting period, subject to exclusions specified below.
- Includes all applicable trouble reports, including those that are out of service and those that are only service-affecting.

Reporting Period: One month	Unit of Measure: Percent
Reporting Comparisons: CLEC aggregate	e, Disaggregation Reporting:
individual CLEC, and CenturyLink QC Reta	il results Statewide level

Formula:

[(Total number of trouble reports closed in the reporting period involving the specified service grouping) \div (Total number of the specified services that are in service in the reporting period)] x 100

Exclusions:

- Trouble reports coded to non-CenturyLink QC causes or dispositions, e.g., Customer Action, Non-Telco Plant, Trouble Beyond the Network Interface, Miscellaneous – Non-Dispatch, non-CenturyLink QC, CPE, Customer Instruction, Carrier, Alternate Provider, and Carrier Action (IEC).
- Subsequent trouble reports of any trouble before the original trouble report is closed.
- Information tickets generated for internal CenturyLink QC system/network monitoring purposes.
- Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.
- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

Product Reporting:	Standards:
Resale Residential single line service	Parity with retail service
Sub-Loop Unbundling	Parity with Retail DS1 Private Line
LIS Trunks	Parity with Feature Group D (aggregate)
Unbundled Loops:	
Analog Loop	Parity with retail Res and Bus POTS
2-Wire Non-Loaded Loop	Parity with retail ISDN-BRI
DS1-Capable Loop	Parity with retail DS1 Private Line, except Colorado NOTE 1
xDSL-I Capable Loop	Parity with retail DS1 Private Line
ADSL-Compatible Loop	Parity with retail ISDN-BRI
Enhanced Extended Loops-DS1 (EEL-DS1)	Parity with retail DS1 Private Line, except Colorado NOTE 1

•	,
Availability: Available	Notes:
	1. In Colorado Only: For DS1-Capable Loops and EEL-DS1s,
	the following three-tiered standard applies:
	a. Benchmark of 3% for 3-month rolling average CLEC
	aggregate result or, if greater than 3%,
	b. Difference of less than or equal to one percentage point
	between 3-month rolling average of CLEC aggregate result
	and corresponding 3-month average Retail comparative
	result or, if difference is greater than one percentage point,
	c. Parity in current reported month using DS1 Private Line as
	retail comparative.

MR-8 – Trouble Rate (continued)

MR-9 – Repair Appointments Met

Purpose:

Evaluates the extent to which CenturyLink QC repairs services for Customers by the appointment date and time.

Description:

Measures the percentage of trouble reports for which the appointment date and time is met.

- Includes all trouble reports closed during the reporting period, subject to exclusions specified below.
- Time measured is from date and time that CenturyLink QC is first notified of the trouble by CLEC to date and time trouble is cleared.

by OLEO to date and time trouble is cleared.		
Reporting Period: One month	Unit of Measure: Percent	
Reporting Comparisons: CLEC aggregate, individual CLEC and CenturyLink QC Retail results	Disaggregation Reporting: Statewide level.Results for listed services will be disaggregated andreported according to trouble reports involving:MR-9ADispatches within MSAs;MR-9BDispatches outside MSAs; andMR-9CNo dispatches.	
Formula:		
[(Total Trouble Reports Cleared by appointment date and time) \div (Total Trouble Reports Closed in the Reporting Period)] x 100		
Exclusions:		
 Trouble reports coded to non-CenturyLink QC causes or dispositions, e.g., Customer Action, Non-Telco Plant, Trouble Beyond the Network Interface, Miscellaneous – Non- Dispatch, non-CenturyLink QC, CPE, Customer Instruction, Carrier, Alternate Provider, and Carrier Action (IEC). Subsequent trouble reports of any trouble before the original trouble report is closed. Information tickets generated for internal CenturyLink QC system/network monitoring purposes. 		
 Time delays due to "no access" are excluded from repair time by using the rescheduled appointment time to determine if the repair appointment is met. 		
• Trouble reports on the day of installation before the installation work is reported by the technician/installer as complete.		
 Records involving official company services. 		
 Records with invalid trouble receipt dates. 		
Records with invalid cleared or closed dates.		
Records with invalid product codes.		
 Records missing data essential to the calculation of the measurement per the PID. 		

• Records missing data essential to the calculation of the measurement per the PID.				
Product Reporting:	Standard:	Diagnostic, with residential		
Resale:		single line retail comparative		
Residential single line service		results also reported		

MR-11 – LNP Trouble Reports Cleared within Specified Timeframes

Purpose:

Evaluates timeliness of clearing LNP trouble reports, focusing on the degree to which residence, disconnect-related, out-of-service trouble reports are cleared within four business hours and all LNP-related trouble reports are cleared within 48 hours.

Description:

- MR-11A: Measures the percentage of specified LNP-only (i.e., not unbundled-loop), residence out-of-service trouble reports that are cleared within four business hours of CenturyLink QC receiving these trouble reports from CLECs.
 - Includes only trouble reports that are received on or before the currentlyscheduled due date of the actual LNP-related disconnect time/date, or the next <u>business day</u>, that are confirmed to be caused by disconnects being made before the scheduled time, and that are closed during the reporting period, subject to exclusions specified below.
- MR-11B: Measures the percentage of specified LNP-only trouble reports that are cleared within 48 hours of CenturyLink QC receiving these trouble reports from CLECs.
 - Includes all LNP-only trouble reports, received within four calendar days of the actual LNP-related disconnect date and closed during the reporting period.
- The "currently-scheduled due date/time" is the original due date/time established by CenturyLink QC in response to CLEC/customer request for disconnection of service ported via LNP or, if CLEC submits to CenturyLink QC a timely or untimely request for delay of disconnection, it is the CLEC/customer-requested later date/time.
- A request for delay of disconnection is considered timely if received by CenturyLink QC before 8:00 p.m. MT on the due date that CenturyLink QC has on record at the time of the request.
- A request for delay of disconnection is considered untimely if received by CenturyLink QC after 8:00 p.m. MT on the due date and before 12:00 p.m. MT (noon) on the day after the due date.
- Time measured is from the date and time CenturyLink QC receives the trouble report to the date and time trouble is cleared.

Reporting Period: One month	Unit of Measure: Percent			
Reporting Comparisons: CLEC	Disaggregation Reporting: Statewide level			
Aggregate and Individual CLEC	(all are "non-dispatched").			
Formula:				
MR-11A = [(Number of specified out-of-service LNP-only Trouble Reports, for LNP-related				
troubles confirmed to be caused by disconnects, that CenturyLink QC executed				

- troubles confirmed to be caused by disconnects, that CenturyLink QC executed before the currently-scheduled due date/time, that were closed in the reporting period and cleared within four business hours) ÷ (Total Number of specified out of service LNP-only Trouble Reports for LNP-related troubles confirmed to be caused by disconnects that CenturyLink QC executed before the currentlyscheduled due date/time, that were closed in the reporting period)] x 100
- MR-11B = [(Number of specified LNP-only Trouble Reports closed in the reporting period that were cleared within 48 hours) ÷ (Total Number of specified LNP-only Trouble Reports closed in the reporting period)] x 100

MR-11 – LNP Trouble Reports Cleared within Specified Timeframes

Exclusions:

- Trouble reports attributed to customer or non-CenturyLink QC reasons.
- Trouble reports not related to valid requests (LSRs) for LNP and associated disconnects.
- Subsequent trouble reports of LNP trouble before the original trouble report is closed.
- For MR-11B only: Trouble reports involving a "no access" delay.
- Information tickets generated for internal CenturyLink QC system/network monitoring purposes.
- Records involving official company services.
- Records with invalid trouble receipt dates.
- Records with invalid cleared or closed dates.
- Records with invalid product codes.
- Records missing data essential to the calculation of the measurement per the PID.

Product Reporting	: LNP	Standards:	Diagnostic
Availability:	Available	Notes:	

Billing

BI-2 – Invoices Delivered within 10 Days

Purpose:		
Evaluates the timeliness with which CenturyLink QC delivers industry-standard,		
	ocusing on the percent delivered within ten	
calendar days.		
Description:		
•	are delivered within ten days, based on the	
number of days between the bill date and		
	nically transmitted invoices for local exchange	
services and toll, subject to exclusions		
Reporting Period: One month	Unit of Measure: Percent	
Reporting Comparisons: Combined	Disaggregation Reporting: State level	
CenturyLink QC Retail/CLEC results		
(Parity by design)		
Formula:		
- `	sion Date to Bill Date is ten calendar days or	
less) ÷ (Total Number of Invoices)] x 100		
Exclusions:		
Bills transmitted via paper, magnetic ta	pe, CD-ROM, diskette.	
• Records with missing data essential to the calculation of the measurement per the PID.		
Product Reporting: Standard:		
UNEs and Resale Residence	Diagnostic (Parity by Design)	
Availability:	Notes:	
Available		

BI-3 – Billing Accuracy – Adjustments for Errors

BI-3 – Billing Accuracy – Adjustments		
Purpose:		
Evaluates the accuracy with which CenturyLink QC bills CLECs, focusing on the		
percentage of billed revenue adjusted due to errors.		
Description:		
Measures the billed revenue minus amounts adjusted off bills due to errors, as a		
percentage of total billed revenue.		
	adjusted off bills due to error are calculated from	
bills rendered in the reporting period.		
	ors" is the sum of all bill adjustments made in the	
1 01	n part or in total, adjustment codes related to billing	
	ying is added to the sum in its entirety.)	
Reporting Period: One month	Unit of Measure: Percent	
Reporting Comparisons: CLEC Disaggregation Reporting: State level		
	Disaggregation Reporting: State level	
aggregate, individual CLECs	Disaggregation Reporting: State level	
aggregate, individual CLECs Formula:		
aggregate, individual CLECs Formula: $[\Sigma$ (Total Billed Revenue Billed in Report	ing Period - Amounts Adjusted Off Bills Due to	
aggregate, individual CLECs Formula:	ing Period - Amounts Adjusted Off Bills Due to	
aggregate, individual CLECs Formula: $[\Sigma(Total Billed Revenue Billed in Report Errors) \div (Total Billed Revenue billed in Billed Revenue billed Revenue billed Revenue billed in Billed Revenue billed in Billed Revenue billed in Billed Revenue billed in Billed Revenue billed Reven$	ing Period - Amounts Adjusted Off Bills Due to	
aggregate, individual CLECs Formula: [∑(Total Billed Revenue Billed in Report Errors) ÷ (Total Billed Revenue billed in Exclusions:	ing Period - Amounts Adjusted Off Bills Due to	
aggregate, individual CLECs Formula: [∑(Total Billed Revenue Billed in Report Errors) ÷ (Total Billed Revenue billed in Exclusions: •BI-3A - UNEs and Resale – None	ing Period - Amounts Adjusted Off Bills Due to Reporting Period)] x 100	
aggregate, individual CLECs Formula: [∑(Total Billed Revenue Billed in Report Errors) ÷ (Total Billed Revenue billed in Exclusions: •BI-3A - UNEs and Resale – None •BI-3B - Reciprocal Compensation Minu	ing Period - Amounts Adjusted Off Bills Due to Reporting Period)] x 100	
aggregate, individual CLECs Formula: [∑(Total Billed Revenue Billed in Report Errors) ÷ (Total Billed Revenue billed in Exclusions: •BI-3A - UNEs and Resale – None	ing Period - Amounts Adjusted Off Bills Due to Reporting Period)] x 100	
aggregate, individual CLECs Formula: [∑(Total Billed Revenue Billed in Report Errors) ÷ (Total Billed Revenue billed in Exclusions: •BI-3A - UNEs and Resale – None •BI-3B - Reciprocal Compensation Minu CLEC-caused errors in return of minute	ing Period - Amounts Adjusted Off Bills Due to Reporting Period)] x 100	
aggregate, individual CLECs Formula: [∑(Total Billed Revenue Billed in Report Errors) ÷ (Total Billed Revenue billed in Exclusions: •BI-3A - UNEs and Resale – None •BI-3B - Reciprocal Compensation Minu CLEC-caused errors in return of minute Product Reporting:	ing Period - Amounts Adjusted Off Bills Due to Reporting Period)] x 100	
aggregate, individual CLECs Formula: [∑(Total Billed Revenue Billed in Report Errors) ÷ (Total Billed Revenue billed in Exclusions: •BI-3A - UNEs and Resale – None •BI-3B - Reciprocal Compensation Minu CLEC-caused errors in return of minute	ing Period - Amounts Adjusted Off Bills Due to Reporting Period)] x 100	
aggregate, individual CLECs Formula: [∑(Total Billed Revenue Billed in Report Errors) ÷ (Total Billed Revenue billed in Exclusions: •BI-3A - UNEs and Resale – None •BI-3B - Reciprocal Compensation Minu CLEC-caused errors in return of minute Product Reporting: • BI-3A – UNE Loops and Resale	ing Period - Amounts Adjusted Off Bills Due to Reporting Period)] x 100	
aggregate, individual CLECs Formula: [∑(Total Billed Revenue Billed in Report Errors) ÷ (Total Billed Revenue billed in Exclusions: • BI-3A - UNEs and Resale – None • BI-3B - Reciprocal Compensation Minu CLEC-caused errors in return of minute Product Reporting: • BI-3A – UNE Loops and Resale Residence	ing Period - Amounts Adjusted Off Bills Due to Reporting Period)] x 100	
 aggregate, individual CLECs Formula: [∑(Total Billed Revenue Billed in Report Errors) ÷ (Total Billed Revenue billed in Exclusions: BI-3A - UNEs and Resale – None BI-3B - Reciprocal Compensation Minu CLEC-caused errors in return of minute Product Reporting: BI-3A – UNE Loops and Resale Residence BI-3B - Reciprocal Compensation 	ing Period - Amounts Adjusted Off Bills Due to Reporting Period)] x 100	

BI-4 – Billing Completeness

Purpose:

- UNEs and Resale Evaluates the completeness with which CenturyLink QC reflects non-recurring and recurring charges associated with completed service orders on the bills.
- Reciprocal Compensation Minutes of Use (MOU) Evaluates the completeness with which CenturyLink QC reflects the revenue for Local Minutes of Use associated with CLEC local traffic over CenturyLink QC's network on the bills.

Description:

BI-4A – UNEs and Resale: Measures the percentage of non-recurring and recurring charges associated with completed service orders appear on the correct bill.*

BI-4B – Reciprocal Compensation (MOU): Measures the percentage of revenue associated with local minutes of use appearing on the correct (current) bill.*

* Correct bill = next available bill

Reporting Comparisons: CLEC Disa	it of Measure: Percent
aggregate, individual CLECs, and CenturyLink QC Retail results	saggregation Reporting: Statewide level.

Formula:

BI-4A – UNEs and Resale = [Σ (Count of service orders with non-recurring and recurring charges associated with completed service orders on the bills that are billed on the correct bill \div total count of service orders with non-recurring and recurring charges associated with completed service orders billed on the bill)] x 100

BI-4B – Reciprocal Compensation MOU = [∑(Revenue for Local Minutes of Use billed on the correct* bill ÷ Total revenue for Local Minutes of Use collected during the month)] x 100

Exclusions: Nor	ne		
Product Reporti	ng: nd Resale Residence	Standards:	Diagnostic
	ompensation (MOU)		
Availability:	Available	Notes:	

Database Updates

DB-1 – Time to Update Databases

Purpose:

Evaluates the time required for updates to the databases of LIDB and Directory Builder. **Description:**

- Measures the average time required to update the databases of LIDB and the directory database updating system.
- Includes all database updates as specified under Disaggregation Reporting completed during the reporting period.

Bonarting Bariad, One month		ni+	of Moasuro:
Reporting Period: One month		Unit of Measure:	
Dementing Opportunities		Seconds	
 Reporting Comparisons: DB-1B-LIDB: Combined results for all CenturyLink QC Retail, Reseller CLEC and Facilities Based CLEC updates; DB-1C-1-Listings: Combined results for all Provider types including CenturyLink QC Retail, Reseller CLEC, and Facilities Based CLEC, ILEC and Unknown Provider, Electronically Submitted, Electronically Processed updates. NOTE 1 		DB-1	 IB: LIDB for CenturyLink QC Retail, Reseller CLEC and Facilities Based CLEC – Multi state region-wide level IC-1: Listings for all Provider types including CenturyLink QC Retail, Reseller CLEC, and Facilities Based CLEC, ILEC and Unknown Provider, Electronically Submitted, Electronically Processed– Sub-region applicable to state
Formula: Σ[(Date and Time of database update for ear Disaggregation Reporting in the reporting p for entry into the database for each database Reporting in the reporting period)] ÷ Total d Disaggregation Reporting completed in the Exclusion: Invalid start/stop dates/times.		beriod se up lataba repo) – (Date and Time of submissions of data date as specified under Disaggregation as updates as specified under
Product Reporting: Not applicable (Reported by database type)Standards: Diagnostic			Standards: Diagnostic
Availability: Available	 Notes: Because they cannot be separated, results for CenturyLink QC Retail, Reseller CLEC, Facilities-based CLECs, ILEC and Unknown Provider updates are reported combined. 		

Network Performance

NI-1 – Trunk Blocking

Purpose:

Evaluates factors affecting completion of calls from CenturyLink QC end offices to CLEC end offices, compared with the completion of calls from CenturyLink QC end offices to other CenturyLink QC end offices, focusing on average busy-hour blocking percentages in interconnection or interoffice final trunks.

Description:

Measures the percentage of trunks blocking in interconnection and interoffice final trunks.

• Includes blocking percentages on all direct final and alternate final interconnection and interoffice trunk groups that are in service during the reporting period, subject to exclusions specified below.

Reporting Period: One month		Unit of Measure: Percent Blockage
Reporting	Disaggregation Rep	oorting: Statewide level.
Comparisons: CLEC aggregate, individual	Reports the percenta trunks, reported by:	age of trunks blocking in interconnection final
CLEC, and CenturyLink QC Interoffice trunk		tion (LIS) trunks to CenturyLink QC tandem TGSR-related exclusions applied as elow;
blocking results.	NI-1B LIS trunks to CenturyLink QC end offices, with TGSR- related exclusions applied as specified below;	
		o CenturyLink QC tandem offices, without ed exclusions;
		o other CenturyLink QC end offices, without ed exclusions.

Formula:

 $\{\sum (Blockage in Final Trunk Group of Specified Type) x (Number of Circuits in Trunk Group)] + (Total Number of Final Trunk Circuits in all Final Trunk Groups) x 100$

Explanation: Actual average percentage of trunk blockage is calculated by dividing the equivalent average number of trunk circuits blocking by the total number of trunk circuits in final trunks of the type being measured.

Exclusions:

For NI-1A and NI-1B only:

- Trunk groups, blocking in excess of one percent in the reporting period, for which:
 - A Trunk Group Service Request (TGSR) ^{NOTES 1 & 2} or the equivalent (if replaced by another process) has been issued in the reporting period; or
 - CLECs do not submit, within 20 calendar days of receiving a TGSR or equivalent:
 - Responsive ASRs (or have ASRs pending that are delayed for CLEC reasons NOTE 3);
 - Trouble Reports; or
 - Notification of traffic re-routing (as described in Note 1 below).

a) Trunk grou CenturyLin measurem	<u>1B, NI-1C, and NI-1D</u> : ps. blocking in excess of one percent in the reporting period, for which		
CenturyLir measurem	ps. blocking in excess of one percent in the reporting period, for which		
• Irunk (a) Trunk groups, blocking in excess of one percent in the reporting period, for which CenturyLink QC can identify, in time to incorporate in the regular reporting of this measurement, the cause as being attributable to: 		
force m	roup out-of-service conditions arising from cable cuts, severe weather, or ajeure circumstances;		
 The CLEC placing trunks in a "busy" condition; a) Lack of interconnection facilities to fulfill LIS requests for which the CLEC did not provide a timely forecast to CenturyLink QC. (This portion of the exclusion is limited to being applied in (a) the month the LIS requests could not be fulfilled, due to lack of facilities, and (b) each month thereafter up to the month following facility availability OR up to five months after the month the LIS requests could not be fulfilled, whichever is sooner ^{NOTE 4}); or 			
b) Isolated the CLI (b) do r	 b) Isolated incidences of blocking, about which CenturyLink QC provides notification to the CLEC, that (a) are not recurring or persistent (affecting the same trunk groups), (b) do not warrant corrective action by CLEC or CenturyLink QC, and (c) thus, do not require an actionable TGSR. 		
	ps recently activated that have not been in service for a full "20-high-day,		
	review period. , non-final trunks, and trunks that are not connected to the public switched		
	runks originating at CLEC end offices.		
assistance	k QC official services trunks, local interoffice operator and directory trunks, and local interoffice 911/E911 trunks.		
	ith invalid product codes.		
	issing data essential to the calculation of the measurement per the PID. orting: Standards: Diagnostic, with retail comparative results also		
Product Repo	reported as specified below for NI-1A and NI-1B:		
	 NI-1A: Comparison with CenturyLink QC Interoffice Trunks to tandems 		
	 NI-1B: Comparison with CenturyLink QC Interoffice Trunks to end offices 		
Availability:	Notes:		
Available	 CenturyLink QC uses TGSRs (or equivalent, as explained above under "Exclusions") to notify CLECs when trunk blocking exceeds standard thresholds or is determined to be persistent. To respond properly to TGSRs, a CLEC must (a) submit within 20 days ASRs to provide necessary trunk augmentations to avoid further blocking, (b) notify CenturyLink QC within 20 days that it is initiating a Trouble Report where CenturyLink QC traffic routing problems are causing the blocking 		

blocking.

referenced by the TGSR, or (c) notify CenturyLink QC that the CLEC will undertake its own re-routing of traffic within 20 days to alleviate the

2. The TGSR-related exclusion is applied in the month in which the TGSR is issued and in the month in which the above-specified 20-day

NI-1 – Trunk Blocking (Continued)

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response period ends. Thus, any trunk group excluded in one month will not be excluded in the next month, unless there is (a) a 20-day period following a TGSR ends in that month, (b) there is another TGSR applicable to the next month for the same trunk group or (c) an exception documented, in lieu of issuing a subsequent TGSR, where the
CLEC's response to the previous TGSR indicated that, for its own reasons, it plans to take no action at any time to augment the trunk
group. 3. CLEC delays are reflected by CLEC-initiated order supplements that
 move the due date later. a. CenturyLink QC-initiated due date delays, including supplements made pursuant to CenturyLink QC requests to delay due dates, shall not be counted as CLEC delays in this measurement. b. CenturyLink QC-initiated due date changes to earlier dates that the CLEC does not meet shall not be counted as a CLEC delay in this measurement unless the earlier dates were mutually agreed-upon. c. CLEC delays (e.g., "customer not ready" in advance of a due date) that do not contribute to a CenturyLink QC-established due date being missed shall not be counted as a CLEC delay in this measurement.
 4. The limitation on part (3) of this exclusion is intended to bound its applicability to a period of time that treats the unforecasted ASR as if it were, in effect, the first forecast for the facilities needed. a. Given that forecast advance intervals are currently six months, this provision allows the exclusion to apply for no longer than that period of time. b. Nevertheless, this limitation to the exclusion also recognizes that facilities may become available sooner and, if so, reduces the limitation accordingly. In that context, this limitation recognizes that, absent a CLEC forecast, CenturyLink QC still retains a responsibility to provide facilities for the ASR, although in a longer timeframe than for ASRs covered by forecasts. c. This limitation may change depending on the outcome of separate workshops dealing with issues of interconnection forecasting.

Collocation

CP-2 – Collocations Completed within Scheduled Intervals

Purpose:

Evaluates the extent to which CenturyLink QC completes collocation arrangements for CLECs within the standard intervals or intervals established in interconnection agreements.

Description:

Measures the percentage of collocation applications that are completed within standard intervals, including intervals set forth in interconnection agreements.

- Includes all collocations of types specified herein that are assigned a Ready for Service Date (RFS) date by CenturyLink QC and that are completed within the reporting period, including those with CLEC-requested RFS dates longer than the standard interval and those with extended RFS dates negotiated with the CLEC (including supplemented collocation orders that extend the RFS date) subject to exclusions specified below. Collocation types included are: physical cageless, physical caged, shared physical caged, physical-line sharing, cageless-line sharing, and virtual. NOTE 1
- The Collocation Application Date is the date CenturyLink QC receives from the CLEC a complete and valid application for collocation. In cases where the CLEC's collocation application is received by CenturyLink QC on a weekend or holiday, the Collocation Application Date is the next business day following the weekend or holiday.
- Major Infrastructure Modifications are defined as conditioning the collocation space. obtaining permits, and installing DC power plant, standby generators, heating, venting or air conditioning equipment.
- A collocation arrangement is counted as met under this measurement if its RFS date is met.
- Establishment of RFS Dates: RFS dates are established as follows, except where interconnection agreements require different intervals, in which case the intervals specified in the interconnection agreements apply:
 - Collocation Applications with Timely Quote Acceptance and, for Virtual **Collocations, also with Timely Equipment Ready –** for collocation applications where the CLEC accepts the quote in seven or fewer calendar days after the quote date and, for virtual collocations, where the CLEC provides the equipment to be collocated to CenturyLink QC 53 calendar days or less after the Collocation Application Date, the RFS date shall be:
 - Forecasted Collocations: 90 calendar days after the Collocation Application Date for physical collocations for which the CLEC provides a complete forecast to CenturyLink QC 60 or more calendar days in advance of the Collocation Application Date.
 - Unforecasted Collocations: 120 calendar days after the Collocation Application Date for physical collocations for which the CLEC does not provide a forecast to CenturyLink QC 60 or more calendar days in advance of the Collocation Application Date.
 - Collocation Applications with Late Quote Acceptance and, for Virtual **Collocations, also with Timely Equipment Ready** – for collocation applications where the CLEC accepts the quote in eight or more calendar days after the quote date and, for virtual collocations, where the CLEC provides the equipment to be

CP-2 – Collocations Completed within Scheduled Intervals (continued)

collocated to CenturyLink QC 53 calendar days or less after the Collocation Application Date, the RFS date shall be:

- **Forecasted Collocations:** 90 calendar days after the quote acceptance date for collocations for which the CLEC provides a complete forecast to CenturyLink QC 60 or more calendar days in advance of the Collocation Application Date.
- <u>Unforecasted Collocations</u>: 120 calendar days after the quote acceptance date for collocations for which the CLEC does not provide a forecast to CenturyLink QC 60 or more calendar days in advance of the Collocation Application Date.
- Virtual Collocation Applications with Timely Quote Acceptance and Late Equipment Ready – for virtual collocation applications where the CLEC (1) accepts the quote in seven or fewer calendar days after the quote date and (2) provides the equipment to be collocated to CenturyLink QC more than 53 calendar days after the Collocation Application Date, the RFS date shall be:
 - Forecasted Collocations: 45 calendar days after the equipment is provided to CenturyLink QC, for collocations for which the CLEC provides a complete forecast to CenturyLink QC 60 or more calendar days in advance of the Collocation Application Date.
 - <u>Unforecasted Collocations</u>: 75 calendar days after the equipment is provided to CenturyLink QC, for collocations for which the CLEC does not provide a forecast to CenturyLink QC 60 or more calendar days in advance of the Collocation Application Date.
- Virtual Collocation Applications with Late Quote Acceptance and Late Equipment Ready – for virtual collocation applications where the CLEC (1) accepts the quote in eight or more calendar days after the quote date and (2) provides the equipment to be collocated to CenturyLink QC more than 53 calendar days after the Collocation Application Date, the RFS date shall be:
 - <u>Forecasted Collocations</u>: 45 calendar days after the equipment is provided to CenturyLink QC, for collocations for which the CLEC provides a complete forecast to CenturyLink QC 60 or more calendar days in advance of the Collocation Application Date.
 - <u>Unforecasted Collocations</u>: 75 calendar days after the equipment is provided to CenturyLink QC, for collocations for which the CLEC does not provide a forecast to CenturyLink QC 60 or more calendar days in advance of the Collocation Application Date.
- <u>All Collocations (physical, virtual, forecasted, or unforecasted) requiring Major</u> <u>Infrastructure Modifications</u>: the later of (1) up to 150 calendar days (as specified in the quote) after the Collocation Application Date, or (2) for virtual collocations, 45 calendar days following the date equipment to be collocated is provided to CenturyLink QC for collocations in which Major Infrastructure Modifications are required. CenturyLink QC will provide to the CLEC, as part of the quotation, the need for, and the duration of, such extended intervals.
- When a CLEC submits six (6) or more Collocation applications in a one-week period in any state, completion intervals will be individually negotiated. These collocation arrangements will be included in CP-2A, -2B, or -2C according to the criteria specified below for these measurements.
- Where there is a CLEC-caused delay, the RFS Date is rescheduled.

CP-2 – Collocations Completed within Scheduled Intervals (continued)

 Where CLECs do not accept the quote within thirty calendar days of the quote date, the 	Э
application is considered expired.	

- **CP-2A** Forecasted Collocations: Measures collocation installations for which CLEC provides a forecast to CenturyLink QC 60 or more calendar days in advance of the Collocation Application Date.
- **CP-2B** Non-Forecasted and Late Forecasted Collocations: Measures collocation installations for which CLEC does not provide a forecast to CenturyLink QC 60 or more calendar days in advance of the Collocation Application Date.
- **CP-2C** All Collocations requiring Major Infrastructure Modifications and Collocations with intervals longer than 120 days: Measures all collocation installations requiring Major Infrastructure Modifications and collocations for which the RFS date is more than 120 calendar days after the Collocation Application Date.

Reporting Period: One month		Unit of Measure: Percent
Reporting Com and individual Cl	parisons: CLEC aggregate LEC results	Disaggregation Reporting: Statewide level.
[(Count of Colloc	Formula: (for CP-2A, CP-2B and CP-2C) (Count of Collocations for which the RFS is met) ÷ (Total Number of Collocations Completed in the Reporting Period)] x 100	
 Exclusions: RFS dates missed for reasons beyond CenturyLink QC's control. Cancelled or expired requests. 		enturyLink QC's control.
Product Report	ing: None S	Stanuarus. Diagnostic
Availability: Available	 Notes: 1. Collocations covered by this measurement are central office related. As additional types of central office collocation are defined and offered, they will be included in this measurement. Non-central office- based types of collocation (such as remote collocation and field connection points) will be considered for either inclusion in this measurement, or in new, separate measurements, after the terms, conditions, and processes for such collocation types become finalized, accepted, mature (i.e., six months of experience from first installations), and ordered in volumes warranting reporting (i.e., consistently more than two per month in any state). 	

DEFINITIONS OF TERMS

Application Date (and Time) – The date (and time) on which CenturyLink QC receives from the CLEC a complete and accurate local service request (LSR) or access service request (ASR) or retail order, subject to the following:

- For the following types of requests/orders, the application date (and time) is the start of the next business day:
- 1. LSRs and ASRs received after 3:00PM MT for Designed Services and Local Number Portability (except non-designed, flow-through LNP).
- 2. Retail orders received after 3:00 PM local time for Designed Services.
- 3. LSRs received after 7:00PM MT for Resale Residence, Unbundled Loops, and nondesigned, flow-through LNP.
- 4. Retail orders for comparable non-designed services cannot be received after closing time, so the cutoff time is essentially the business office closing time.
- For all types of orders that are received from Friday at 7:00 PM MT through Sunday, or on holidays, and do not flow through, the application date (and time) is the next, non-weekend business day.

Bill Date – The date shown at the top of the bill, representing the date on which CenturyLink QC begins to close the bill.

Blocking – Condition on a telecommunications network where, due to a maintenance problem or an traffic volumes exceeding trunking capacity in a part of the network, some or all originating or terminating calls cannot reach their final destinations. Depending on the condition and the part of the network affected, the network may make subsequent attempts to complete the call or the call may be completely blocked. If the call is completely blocked, the calling party will have to re-initiate the call attempt.

Business Day – Workdays that CenturyLink QC is normally open for business. Business Day = Monday through Friday, excluding weekends and CenturyLink QC published Holidays including New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving, Christmas, and such additional holidays when implemented in all Interconnection Agreements. Individual measurement definitions may modify (typically expanding) this definition as described in the Notes section of the measurement definition.

Cleared Trouble Report – A trouble report for which the trouble has been cleared, meaning the customer is "back in service".

Closed Trouble Report – A trouble report that has been closed out from a maintenance center perspective, meaning the ticket is closed in the trouble reporting system following repair of the trouble.

Common Transport – Trunk groups between tandem and end office switches that are shared by more than one carrier, often including the traffic of both the ILEC and several CLECs.

Completion – The time in the order process when the service has been provisioned and service is available.

Completion Notice – A notification the ILEC provides to the CLEC to inform the CLEC that the requested service order activity is complete.

Coordinated Customer Conversion -- Orders that have a due date negotiated between the ILEC, the CLEC, and the customer so that work activities can be performed on a coordinated basis under the direction of the receiving carrier.

DEFINITIONS OF TERMS (continued)

Customer Requested Due Date – A specific due date requested by the customer which is either shorter or longer than the standard interval or the interval offered by the ILEC.

Customer Trouble Reports – A report that the carrier providing the underlying service opens when notified that a customer has a problem with their service. Once resolved, the disposition of the trouble is changed to closed.

Dedicated Transport – A network facility reserved to the exclusive use of a single customer, carrier or pair of carriers used to exchange switched or special, local exchange, or exchange access traffic.

Delayed Order – An order which has been completed after the scheduled due date and/or time.

Directory Listings – Subscriber information used for DA and/or telephone directory publishing, including name and telephone number, and optionally, the customer's address.

DS-1 – Digital Service Level 1. Service provided at a digital signal speed of 1.544 Mbps.

Due Date – The date provided on the Firm Order Confirmation (FOC) the ILEC sends the CLEC identifying the planned completion date for the order.

End Office Switch – A switch from which an end users' exchange services are directly connected and offered.

Final Trunk Groups – Interconnection and interoffice trunk groups that do not overflow traffic to other trunk groups when busy.

Firm Order Confirmation (FOC) – Notice the ILEC sends to the CLEC to notify the CLEC that it has received the CLECs service request, created a service order, and assigned it a due date.

Flow-Through –The term used to describe whether a LSR electronically is passed from the OSS interface system to the ILEC legacy system to automatically create a service order. LSRs that do not flow through require manual intervention for the service order to be created in the ILEC legacy system.

Interval Zone 1/Zone 2 – Interval Zone 1 areas are wire centers for which CenturyLink QC specifies shorter standard service intervals than for Interval Zone 2 areas.

Installation – The activity performed to activate a service.

Installation Troubles – A trouble, which is identified after service order activity and installation, has completed on a customer's line. It is likely attributable to the service activity (within a defined time period).

Interconnection Trunks – A network facility that is used to interconnect two switches generally of different local exchange carriers

Inward Activity – Refers to all orders for new or additional lines/circuits. For change order types, additional lines/circuits consist of all C orders with "I" and "T" action coded line/circuit USOCs that represent new or additional lines/circuits, including conversions from retail to CLEC and CLEC to CLEC.

Jeopardy – A condition experienced in the service provisioning process which results potentially in the inability of a carrier to meet the committed due date on a service order

Jeopardy Notice – The actual notice that the ILEC sends to the CLEC when a jeopardy has been identified.

Lack of Facilities – A shortage of cable facilities identified after a due date has been committed to a customer, including the CLEC. The facilities shortage may be identified during the inventory assignment process or during the service installation process, and typically triggers a jeopardy.

DEFINITIONS OF TERMS (continued)

Local Exchange Traffic – Traffic originated on the network of a LEC in a local calling area that terminates to another LEC in a local calling area.

Local Number Portability (formerly defined under Permanent Number Portability and also known as – Long Term Number Portability) – A network technology which allows end user customers to retain their telephone number when moving their service between local service providers. This technology does not employ remote call forwarding, but actually allows the customer's telephone number to be moved and redefined in the network of the new service provider. The activity to move the telephone number is called "porting."

Local Service Request (LSR) – Transaction sent from the CLEC to the ILEC to order services or to request a change(s) be made to existing services.

MSA/Non-MSA – Metropolitan Statistical Area is a government defined geographic area with a population of 50,000 or greater. Non-Metropolitan Statistical Area is a government defined geographic area with population of less than 50,000. CenturyLink QC depicts MSA Non-MSA based on NPA NXX. Where a wire center is predominantly within an MSA, all lines are counted within the MSA.

Mechanized Bill – A bill that is delivered via electronic transmission.

Plain Old Telephone Service (POTS) – Refers to basic 2-wire, non-complex analog residential and business services. Can include feature capabilities (e.g., CLASS features).

Projects – Service requests that exceed the line size and/or level of complexity which would allow for the use of standard ordering and provisioning processes. Generally, due dates for projects are negotiated, coordination of service installations/changes is required and automated provisioning may not be practical.

Query Types – Pre-ordering information that is available to a CLEC that is categorized according to standards issued by OBF and/or the FCC.

Ready For Service (RFS) – The status achieved in the installation of a collocation arrangement when all "operational" work has been completed. Operational work consists of the following as applicable to the particular type of collocation:

- Cage enclosure complete;
- DC power is active (including fuses available, BDFB [Battery Distribution Fuse Board] in place, and cables between the CLEC and power terminated);
- Primary AC outlet in place;
- Cable racking and circuit terminations are complete (e.g. fiber jumpers placed between the Outside Plant Fiber Distribution Panel and the Central Office Fiber Distribution Panel serving the CLEC).
- The following items complete, subject to the CLEC having made required payments to CenturyLink QC (e.g., final payment): (If the required CLEC payments have not been made, the following items are not required for RFS):
 - Key turnover made available to CLEC.
 - APOT/CFA complete, as defined/required in CLEC's interconnection agreement, and
 - Basic telephone service and other services and facilities complete, if ordered by CLEC in time to be provided on the scheduled RFS date (per CenturyLink QC's published standard installation intervals for such telephone service).

Ready for Service Date (RFS date) – The due date assigned to a collocation order (typically determined by regulatory rulings, contract terms, or negotiations with CLEC) to indicate when collocation installation is scheduled to be ready for service, as defined above.

DEFINITIONS OF TERMS (continued)

Reject – A status that can occur to a CLEC submitted local service request (LSR) when it does not meet certain criteria. There are two types of rejects: (1) syntax, which occur if required fields are not included in the LSR; and (2) content, which occur if invalid data is provided in a field. A rejected service request must be corrected and re-submitted before provisioning can begin.

Repeat Report – Any trouble report that is a second (or greater) report on the same telephone number/circuit ID and at the same premises address within 30 days. The original report can be any category, including excluded reports, and can carry any disposition code.

Service Group Type – The designation used to identify a category of similar services, e.g., UNE loops.

Service Order – The work order created and distributed in ILECs systems and to ILEC work groups in response to a complete, valid local service request.

Service Order Type – The designation used to identify the major types of provisioning activities associated with a local service request.

Standard Interval – The interval that the ILEC publishes as a guideline for establishing due dates for provisioning a service request. Typically, due dates will not be assigned with intervals shorter than the standard. These intervals are specified by service type and type of service modification requested. ILECs publish these standard intervals in documents used by their own service representatives as well as ordering instructions provided to CLECs in the CenturyLink QC Standard Interval Guidelines.

Subsequent Reports – A trouble report that is taken in relation to a previously-reported trouble prior to the date and time the initial report has a status of "closed."

Tandem Switch – Switch used to connect and switch trunk circuits between and among Central Office switches.

Time to Restore – The time interval from the receipt, by the ILEC, of a trouble report on a customer's service to the time service is fully restored to the customer.

Unbundled Loop - The Unbundled Loop is a transmission path between a CenturyLink QC Central Office Distribution Frame, or equivalent, and the Loop Demarcation Point at an end user premises. Loop Demarcation Point is defined as the point where CenturyLink QC owned or controlled facilities cease, and CLEC, end user, owner or landlord ownership of facilities begins.

GLOSSARY O	OF ACRONYMS
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ACRONYM	DESCRIPTION
ADSL	Asymmetric Digital Subscriber Line
ASR	Service Request (processed via Exact system)
BRI	Basic Rate Interface (type of ISDN service)
CKT	Circuit
CLEC	Competitive Local Exchange Carrier
СО	Central Office
CPE	Customer Premises Equipment
CSR	Customer Service Record
DB	Database
DS1	Digital Service 1
EELS	Enhanced Extended Loops
EXACT	Exchange Access, Control, & Tracking
FOC	Firm Order Confirmation
GUI	Graphical User Interface
HDSL	High-Bit-Rate Digital Subscriber Line
HICAP	High Capacity Digital Service
IEC	Interexchange Carrier
ILEC	Incumbent Local Exchange Carrier
INP	Interim Number Portability
IOF	Interoffice Facilities (refers to trunk facilities located
	between CenturyLink QC central offices)
ISDN	Integrated Services Digital Network
IMA	Interconnect Mediated Access
LIDB	Line Identification Database
LIS	Local Interconnection Service Trunks
LNP	Long Term Number Portability
LSR	Local Service Request
N, T, C	Service Order Types – N (new), T (to or transfer), C
	(change)
OOS	Out of service (type of trouble condition)
OSS	Operations Support Systems
PON	Purchase Order Number
POTS	Plain Old Telephone Service
RFS	Ready for Service (refers to collocation installations)
SOP	A service order processor
TN	Telephone Number
UNE	Unbundled Network Element
XDSL	(X) Digital Subscriber Line. (The "X" prefix refers to
	DSL generically. An "X" replaced by an "A" refers to
	Asymmetric DSL, and by an "H" refers to High-bit-rate
	DSL.)