

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

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Evaluates the guality of CLEC seeses to t	Purpose: Evaluates the quality of CLEC access to the gateway systems offered by CenturyLink QC for					
CLECs to submit LSRs and associated systems that facilitate access to the gateway(s),						
focusing on the extent they are actually available to CLECs.						
Description:	Description:					
	ted System> ^{NOTE 1} : Measures the availability of the					
	CLECs process LSRs, and reports the percentage					
	interface is available for view and/or input.					
	reorder, order, and provisioning transactions are					
	d hours of availability found on the following					
	com/wholesale/cmp/ossHours.html.					
	s equal to Scheduled Availability Time minus					
Outage Time.	Och e dule dule Time minue Och e dule d Deven Time					
	Scheduled Up Time minus Scheduled Down Time.					
	ed and communicated that the interface is not					
	pgrade work. Notification of Scheduled Down Time					
advance.	le work will be provided no less than 48 hours in					
	of functionality, attributable to the aposition actoway					
	of functionality, attributable to the specified gateway					
	C's ability to serve its customers. An outage is cians through the use of verifiable data, collected					
	rom mechanized event management systems.					
Reporting Period: One month	Unit of Measure: Percent					
Reporting Comparisons: CLEC	Disaggregation Reporting: Region-wide level.					
aggregate results						
Formula:						
([Number of Hours and Minutes Gateway or system is Available to CLECs During						
Reporting Period] ÷ [Number of Hours a	eway or system is Available to CLECs During and Minutes of Scheduled Availability Time During					
Reporting Period] ÷ [Number of Hours a Reporting Period]) x 100						
Reporting Period] ÷ [Number of Hours a						
Reporting Period] ÷ [Number of Hours a Reporting Period]) x 100 Exclusions: None Product Reporting: Reported by gatewa	and Minutes of Scheduled Availability Time During ay or Standard: Diagnostic					
Reporting Period] ÷ [Number of Hours a Reporting Period]) x 100 Exclusions: None Product Reporting: Reported by gatewa associated system, for each LSR submitt	and Minutes of Scheduled Availability Time During ay or tal gateway					
Reporting Period] ÷ [Number of Hours a Reporting Period]) x 100 Exclusions: None Product Reporting: Reported by gatewa associated system, for each LSR submitta and for each system that facilitates access	and Minutes of Scheduled Availability Time During ay or tal gateway ss to the					
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Reporting Period] ÷ [Number of Hours a Reporting Period]) x 100Exclusions: NoneProduct Reporting: Reported by gatewa associated system, for each LSR submitt and for each system that facilitates access LSR gateway(s), to the extent availability counted as part of the LSR-processing gatewayAvailability:Available	and Minutes of Scheduled Availability Time During ay or tal gateway ss to the r is not ateway(s). Notes:					
Reporting Period] ÷ [Number of Hours a Reporting Period]) x 100 Exclusions: None Product Reporting: Reported by gatewa associated system, for each LSR submitted and for each system that facilitates access LSR gateway(s), to the extent availability counted as part of the LSR-processing gateway Availability: Available (Prior to turn-up of new systems that replaced	and Minutes of Scheduled Availability Time During ay or tal gateway ss to the r is not ateway(s). Notes: lace 1. Such as "GA-1-IMA-GUI," "GA-1-					
Reporting Period] ÷ [Number of Hours a Reporting Period]) x 100 Exclusions: None Product Reporting: Reported by gatewa associated system, for each LSR submitter and for each system that facilitates access LSR gateway(s), to the extent availability counted as part of the LSR-processing gatewailability: Available (Prior to turn-up of new systems that replication the section of the term of the section of the term of term of the term of term of term of term of the term of the term of the term of term of term of term of the term of te	and Minutes of Scheduled Availability Time During ay or tal gateway ss to the r is not ateway(s). Notes: lace 1. Such as "GA-1-IMA-GUI," "GA-1- XML," ^{NOTE 2} or "GA-1-SIA," with other					
Reporting Period] ÷ [Number of Hours a Reporting Period]) x 100 Exclusions: None Product Reporting: Reported by gatewa associated system, for each LSR submitted and for each system that facilitates access LSR gateway(s), to the extent availability counted as part of the LSR-processing gateway Availability: Availability: Availability: Availability: Availability: Available (Prior to turn-up of new systems that reported in this measurement, parties will work together to establish a tilt	and Minutes of Scheduled Availability Time During ay or tal gateway ss to the r is not ateway(s). Notes: lace I. Such as "GA-1-IMA-GUI," "GA-1- XML," ^{NOTE 2} or "GA-1-SIA," with other gateways or systems being limited to					
Reporting Period] ÷ [Number of Hours a Reporting Period]) x 100 Exclusions: None Product Reporting: Reported by gatewa associated system, for each LSR submitter and for each system that facilitates access LSR gateway(s), to the extent availability counted as part of the LSR-processing gateway and the transformed by the systems that reported by gateway that reported by gateway as part of new systems that reported by gateway by the system of the transformed by gateway as part of the transformed by gateway by the systems that reported by gateway by the system of the transformed by gateway by the system of the transformed by gateway by the systems that reported by gateway by the system of the transformed by gateway by the systems that reported by gateway by the system of the transformed by gateway by the systems that reported by gateway by the system of the transformed by the system of the transt transt transformed by the system of the transformed	and Minutes of Scheduled Availability Time During ay or tal gateway ss to the r is not ateway(s). Notes: lace I. Such as "GA-1-IMA-GUI," "GA-1- XML," ^{NOTE 2} or "GA-1-SIA," with other gateways or systems being limited to					

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.

management eyeteme.	
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).
- 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:	eriod: Monthly Unit of Measure: Percent			
Reporting Comparisons: CLEC Aggregate		Disaggregation Reporting: Region-wide level.		
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	: None	Standards: Diagnostic		
Availability: Available	as experienced 2. Such as, "IMA- with other gate these gateways 3. For data loss to acknowledgem	"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 the 1. Appointment Scheduling (I is required) 2. Service Availability Informa 3. Facility Availability 4. Street Address Validation 5. Customer Service Records 6. Telephone Number 7. Loop Qualification Tools 8. [Left intentionally blank to p 9. Connecting Facility Assign 10. Meet Point Inquiry Where available through the gat response time, response times for reported in two parts: (a) time to receive the response for the spe 	oreserve numbering] ment eway type, in addition to reporting total or each of the above transactions will be access the request screen, and (b) time to cified transaction. For above transaction a third part (c) accept screen, will be ne 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: None	Standards: 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 aggregate, individual CLEC	Disaggregation Reporting: Statewide level (per multi-state system serving the state).		
E (SRs that pass from the Gateway Interface to the SOP on) \div (Total Number of Electronic LSRs that pass rface)] x 100		
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 			
 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 mo	onth	Unit of Meas	ure: I	Hours: Minutes
Reporting Comparisons: CLEC aggregate and individual CLEC results Disaggregation Reporting: Statewide • PO-3C, LSRs received via facsimile • PO-3X, LSRs received electronically and rejected manually • PO-3X, LSRs received electronically and rejected manually • Formula:				
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 Standards: Diagnostic				ostic
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 business days.
- 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 Eor(s.				
Reporting Period: One month		Unit of Measure: Percent		
Reporting		ing: Statewide level (per multi-state system		
Comparisons:	serving the state).			
CLEC aggregate	Results for this indicator	are reported as follows:		
and individual	PO-5A: * FOCs prov	rided for <u>fully electronic</u> LSRs		
CLEC results	 PO-5B: * FOCs provided for electronic/manual 			
	• PO-5C: * FOCs provided for manual LSRs received via Facsimile.			
	• PO-5D: FOCs provided for ASRs requesting LIS Trunks.			
	* Each of the PO-5A, PO-5B and PO-5C measurements listed above will be further disaggregated as follows:			
	 (a) FOCs provided for Resale services 			
	 (b) FOCs provided for Unbundled Loops and specified 			
	Unbundled Network Elements			
	– (c) FOCs	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:		/3		
 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	
	• •			
	requested FOC arrangement	ts different from standard FO	C	
arrangements.				
 Records with inval 	•			
0		ion of the measurement per t	the PID.	
Duplicate LSR nur				
 Invalid start/stop d 	lates/times.			
Additional PO-5D exc	lusion:			
Records with inval	lid application or confirmation	n dates.		
Product Reporting: Standards:				
		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 (b) Unbundled	• For PO-5C (manual):	90% within standard FOC i specified below PLUS 24 h	ntervals ours ^{NOTE 3}	
Loops and specified Unbundled Network			35 % within	
Elements. (c) LNP	Standard FOC Intervals for PO-5B and PO-5C			
	FOC In			
For PO-5D: LIS Resale				
Trunks.	Residence POTS	1-39 lines		
	LNP	1-59 lines		
			04 h a	
		1-24 loops	24 hours	
Analog Loop				
	· · · · · · · · · · · · · · · · · · ·	4.04 - 1.1.		
	Sub-Loop [included in Product Re	1-24 sub-loops		

	, ,		
	[included in Product Rep		48 hours
	Unbundled Loops w/Facili		
		1-24 loops	
	2-Wire Non-Loaded		70 h a una
	ADSL-Compatible		72 hours
	XDSL-I Capable		
	DS1-Capable		
	For PO-5D:		8 business
	LIS Trunks	1-240 trunk circuits	days
	Notes:		
	1. LSRs with quantities abo	ve the highest number	
	 Unbundled Loop with Fa processed electronically; category always carries a FOC results for this prod received electronically of manually. Unbundled Loop with Fa 	however, because this a 72-hour FOC interval the uct will appear in PO-5B if PO-5C if received	
Availability: Available			

- Timely Jeonardy Notices \mathbf{v}

PO-9 – Timely Jeopardy Notices			
Purpose:			
When original due dates are miss	sed, measures t	ne extent to which CenturyLink QC notifies	
customers in advance of jeopard	ized due dates.		
Description:			
Measures the percentage of late	orders for which	advance jeopardy notification is provided.	
 Includes all inward orders (Ch 	nange, New, and	Transfer order types) assigned a due	
		eted/closed in the reporting period that	
U U U U U U U U U U U U U U U U U U U	0 ,	pes included in this measurement consist	
of all C orders representing in			
		tions provided on or after the original due	
•	the denominato	r of the formula but will not be counted in	
the numerator.			
Reporting Period: One month	Unit	of Measure: Percent	
Reporting Comparisons: D	isaggregation	Reporting: Statewide level.	
CLEC aggregate, individual (This measure is	reported by jeopardy notification process	
	s used for the ca	ategories shown under Product Reporting.)	
Retail results			
Formula:			
	-	eporting period that received jeopardy	
		tal number of missed due date orders	
completed in the reporting period	I)] X 100		
Exclusions:			
Orders missed for customer r	easons.		
Records with invalid product of			
Records involving official corr			
 Records with invalid due date 		dates.	
Records with invalid completing			
Records with invalid product of			
		tion of the measurement per the PID.	
Product Reporting:		Standards: Diagnostic, with retail	
		parative results also reported as follows:	
A Non-Designed Services	Α	•	
B Unbundled Loops (with or	without E	•	
Number Portability)		-	
C LIS Trunks	C	Parity with Feature Group D (FGD)	
		Services	
Availability:	Not	es:	
Available			

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 Report	ing: 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 In	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 <u>application 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.

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 inward activity.
- 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 Report	ng: 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 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 Interval Zone 1 areas; and	
	OP-4E In <u>Interval Zone 2</u> 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
Sub-Loop	Unbundling	6 days
Zone-Type D	isaggregation -	
LIS Trunks		Parity with Feature Group D (aggregate)
Unbundled	Loops:	
Analog	Loop	6 days
	Non-Loaded Loop	6 days
	apable Loop	5.5 days
	Capable Loop	6 days
-	Compatible Loop	6 days
	Extended Loops-DS1 (EEL-DS1)	6 days
Availability: Available	 Residence, as well as for the retation For all other products under OP-4 4D, and -4E. Saturday is counted due or completed on Saturday. According to this definition, the Apsuccessive customer-initiated due when a CenturyLink QC-initiated on When a CenturyLink QC-initiated on When a CenturyLink QC-initiated due applicable Due Date becomes fixed on which it was set prior to the first if any. Following the first Century further customer-initiated due date intervals that are subtracted as intervals are calculated as stated cases where multiple CenturyLink stated method for calculating delated due date change or delay. The in CenturyLink QC and customer-initiated impacts 	as a business day for all orders for Resale il analogues specified above as standards. C and for all products under OP-4A, -4B, - d as a business day when the service order is oplicable Due Date can change, per e date changes or delays, up to the point due date change occurs. At that point, the ed (i.e., with no further changes) as the date st CenturyLink QC-initiated due date change, Link QC-initiated due date change, any e changes or delays are measured as time dicated in the formula. These delay time in the description. (Though infrequent, in a QC-initiated due date changes occur, the by intervals is applied to each pair of e change and subsequent customer-initiated tervals thus calculated from each pairing of tiated due dates are summed and then nula.) The result of this approach is that on intervals are counted in the reported apacts on intervals are not counted in the

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:		-		
 Description: Measures the percentage of inward line service orders that are free of repair trouble reports ^{NOTE 2} within 30 calendar days of installation completion, subject to exclusions below. Orders for new services considered in calculating all components of this performance indicator are all inward line service orders completed in the reporting period, including Change (C-type) orders for additional lines/circuits, subject to exclusions shown below. Change order types considered in these measurements consist of all C orders representing inward activity. ^{NOTE 1} Orders for new service installations include conversions (Retail to CLEC, CLEC to 				
CLEC, and same CLEC converting bet	ween products).			
 Repair trouble reports include both out of service and other service affecting conditions, such as features on a line that are missing or do not function properly upon conversion, subject to exclusions shown below. 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 re	pair management and t	racking systems NOTE 3		
that are closed in the reporting period c	or the following month, ¹	NOTE 4 subject to		
exclusions shown below. NOTE 5		-		
CenturyLink QC is able to open repair t	tickets for repair trouble	reports received from		
CLECs/customers once the service orc				
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				
cover the 30-day period following installation				
Reporting Comparisons: CLEC aggregate, individual CLEC and CenturyLink QC Retail results		orting: Statewide level		
Formula:				
(Number inward line service orders completed in the reporting period – Number of inward				
(Number inward line service orders comple	eted in the reporting pe	riod – Number of inward		
line service orders with any repair trouble i	reports as specified abo			
	reports as specified abo			
line service orders with any <u>repair trouble</u> in the report	reports as specified abo ing period) x 100 LEC or coded to non-Co buble Beyond the Netwo Customer Instruction, Ca tomer that result in a ch e, Customer requested s	ove) ÷ (Number of inward enturyLink QC, e.g.: ork Interface, arrier, Alternate Provider, arge if dispatched, Carrier service order activity, and		

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

1 5 5					
•		d below – one e result reported for	(Where parity comparisons involve multiple service varieties in a product category, weighting based on the		
	each bullet	ed category under		analogue volumes may be used if necessary to	
		easurements shown.		a comparison that is not affected by different	
				tions of wholesale and retail analogue volumes in	
			the sa	me reporting category.)	
P	roduct Repo		-	Standards:	
٠	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)	
	DS1-Ca	apable Loop		Parity with retail DS1	
	xDSL-I	Capable Loop		Parity with retail DS1 Private Line	
	ADSL-0	Compatible Loop		Parity with retail ISDN BRI (designed)	
•	Enhanced E	Extended Loops-DS1 (El	nded Loops-DS1 (EEL-DS1) Parity with retail DS1 Private Line		
•	LIS Trunks	}		Parity with Feature Group D (aggregate)	
A	vailability:	Notes:			
	 Available The specified Change order types representing inward activity exclude Change orders that do not involve installation of lines (in both wholesale and retail results). Specifically this measurement does not include changes to existing lines, such as number changes and PIC changes. Including consideration of repeat repair trouble reports (i.e., additional reports of trouble related to the same newly-installed line/circuit that are received after the preceding repair report is closed and within 30 days following installation completion) to complete the determination of whether the newly-installed line/circuit was trouble free within 30 days of installation. 				

OP-5 – New Service Installation Quality (continued)

, , , ,	nent and tracking systems obtain the
repair report data for this measure	ement. Not included are Call Center
Database systems supporting call	
customers regarding problems or	other inquiries.
	so the period of a few <u>business days</u>
(typically four or five) afterward, up	o to the time when CenturyLink QC
	essing results for this measurement.
. Includes repair and provisioning tr	
processes that supersede or supp	lement existing processes for
submitting repair and provisioning	trouble reports as specified in
CenturyLink QC's documented or	agreed upon procedures.
. Sub-Loop Unbundling standard: W	
1 0	EC and CenturyLink QC may work
together to identify an applicable t	Denchmark.

OP-8 – Number Portability Timeliness

Purpose:			
Evaluates the timeliness of cutovers of local number portability (LNP).			
Description:			
OP-8B – LNP Timeliness with Loop Coordination (percent): Measures the percentage of coordinated LNP triggers set prior to the scheduled start time for the loop.			
 All orders for LNP coordinated with unbundled loops that are completed/closed during 			
the reporting period are measured, subject to exclusions specified below.			
OP-8C – LNP Timeliness without Loop Coordination (percent): Measures the percentage of LNP triggers set prior to the Frame Due Time or scheduled start time for the LNP			
cutover as applicable.	on with a loop was not requested that are		
 All orders for LNP for which coordination with a loop was not requested that are completed/closed during the reporting period are measured (including standalone LNP coordinated with other than CenturyLink QC-provided Unbundled Loops and non- 			
coordinated, standalone LNP), subject			
	P-8B and -8C), "trigger" refers to the "10-digit ite (LSA) that is set or translated by CenturyLink		
	confirmed 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 D			
aggregate and individual CLEC results			
aggregate and individual CLEC results			
Formula:			
Formula:	ore the scheduled time for the coordinated loop		
Formula: OP-8B = [(Number of LNP triggers set before)	ore the scheduled time for the coordinated loop activations coordinated with unbundled loops		
Formula: OP-8B = [(Number of LNP triggers set before)			
Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100			
Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before)	activations coordinated with unbundled loops		
Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before)	efore the Frame Due Time or Scheduled Start		
Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set be Time) ÷ (Total Number of LNP active	efore the Frame Due Time or Scheduled Start		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active Exclusions: CLEC-caused delays in trigger setting. 	efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active Exclusions: CLEC-caused delays in trigger setting. LNP requests that do not involve automatication and the set of the set of	efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active Exclusions: CLEC-caused delays in trigger setting. LNP requests that do not involve automation of LNP requests for which the records used 	efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active Exclusions: CLEC-caused delays in trigger setting. LNP requests that do not involve automatication and the set of the set of	efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100 atic triggers. d as sources of data for these measurements		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active Exclusions: CLEC-caused delays in trigger setting. LNP requests that do not involve automate the following types of errors: Records with no PON (purchase order not set the following types of errors) 	efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100 atic triggers. d as sources of data for these measurements number) or STATE.		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active Exclusions: CLEC-caused delays in trigger setting. LNP requests that do not involve automate LNP requests for which the records used have the following types of errors: Records with no PON (purchase order not set due to the set due to the triggers cannot be set due to the trigge	 activations coordinated with unbundled loops efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100 atic triggers. d as sources of data for these measurements number) or STATE. ue to switch capabilities. 		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active Exclusions: CLEC-caused delays in trigger setting. LNP requests that do not involve automate LNP requests for which the records used have the following types of errors: Records with no PON (purchase order no Records with invalid due dates, application) 	 activations coordinated with unbundled loops efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100 atic triggers. d as sources of data for these measurements number) or STATE. ue to switch capabilities. 		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active Exclusions: CLEC-caused delays in trigger setting. LNP requests that do not involve automate have the following types of errors: Records with no PON (purchase order not Records with invalid due dates, application) Records with invalid completion dates. 	 activations coordinated with unbundled loops efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100 atic triggers. d as sources of data for these measurements number) or STATE. ue to switch capabilities. ion dates, or start dates. 		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active) ÷ (Total Number	 activations coordinated with unbundled loops efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100 atic triggers. d as sources of data for these measurements number) or STATE. ue to switch capabilities. ion dates, or start dates. 		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active Exclusions: CLEC-caused delays in trigger setting. LNP requests that do not involve automate have the following types of errors: Records with no PON (purchase order not records with invalid due dates, application application) Records with invalid completion dates. Records missing data essential to the cate Invalid start/stop dates/times or invalid frequencies. 	 activations coordinated with unbundled loops efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100 atic triggers. d as sources of data for these measurements number) or STATE. ue to switch capabilities. ion dates, or start dates. alculation of the measurement per the PID. rame due or scheduled date/times. 		
 Formula: OP-8B = [(Number of LNP triggers set before cutover) ÷ (Total Number of LNP completed)] x 100 OP-8C = [(Number of LNP triggers set before Time) ÷ (Total Number of LNP active Exclusions: CLEC-caused delays in trigger setting. LNP requests that do not involve automate LNP requests for which the records used have the following types of errors: Records with no PON (purchase order not Records with invalid due dates, application application) Records with invalid completion dates. Records missing data essential to the categories 	 activations coordinated with unbundled loops efore the Frame Due Time or Scheduled Start vations without loop cutovers completed)] x 100 atic triggers. d as sources of data for these measurements number) or STATE. ue to switch capabilities. ion dates, or start dates. 		

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 business days that pending orders are delayed			
beyond the Applicable Due Date for reasons attributed to CenturyLink QC.			
 Includes all pending inward orders (Change, New, and Transfer order types) for which 			
the Applicable Due Date recorded by CenturyLink QC has been missed, subject to			
exclusions specified below. Change order types included in this measurement consist of			
all "C" orders representing inward activity.			
• 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 T	
 Time intervals associated with custome 			
after the Applicable Due Date, as applie			
subtracting the latest CenturyLink QC-in	nitiated due date, i	if any, following the Applicable	
Due Date, from the subsequent custom	er-initiated due da	ate, if any.	
OP-15B – Reports the number of pending orders measured in the numerator of OP-15A			
	•		
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	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	e: 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	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 faReporting Period: One monthReporting Comparisons:CLEC aggregate, individual CLEC, CentureFormula:OP-15A = Σ [(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 I th customer-initiate	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	
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 I 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 faReporting Period: One monthReporting Comparisons:CLEC aggregate, individual CLEC, CenterFormula:OP-15A = Σ [(Last Day of Reporting Period)- (Time intervals associated with occurring after the Applicable DDelayed for CenturyLink QC report	cility reasons. Unit of Measure OP-15A – Averag OP-15B – Numb uryLink QC retail od) – (Applicable I th customer-initiate Due Date)] ÷ (Total asons as of the las	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)	
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	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)	
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 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	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)	
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 meass for CenturyLink QC facility reass Exclusions:	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 lass sured in numerators cons	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 = Σ[(Last Day of Reporting Period – (Time intervals associated with occurring after the Applicable D Delayed for CenturyLink QC react 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 – Averagon OP-15B – Numb uryLink QC retail od) – (Applicable I th customer-initiate oue Date)] ÷ (Total asons as of the lass sured in numerators sconnect) and Rec	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 reporting OP-15B = Count of pending orders mease for CenturyLink QC facility rease Exclusions: • Disconnect, From (another form of dist) • Records involving official company set	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 lass sured in numerator sons sconnect) and Rec	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, Cent Formula: OP-15A = ∑[(Last Day of Reporting Period) - (Time intervals associated with occurring after the Applicable D Delayed for CenturyLink QC rest OP-15B = Count of pending orders meases for CenturyLink QC facility reases Exclusions: • Disconnect, From (another form of dist) • Records involving official company set • Records with invalid due dates or approximation	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 lass sured in numerator sons sconnect) and Rec	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 reporting OP-15B = Count of pending orders mease for CenturyLink QC facility rease Exclusions: • Disconnect, From (another form of dist) • Records involving official company set	cility reasons. Unit of Measure OP-15A – Averagon OP-15B – Numb uryLink QC retail od) – (Applicable I th customer-initiate oue Date)] ÷ (Total asons as of the lass sured in numerators sconnect) and Rec ervices. plication dates.	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 cord order types.	

	-	
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 U	nbundling	Diagnostic
LIS Trunks		Diagnostic (Expectation: Parity with Feature
		Group D (aggregate)) (separately reported)
Unbundled L		
Analog Lo	рор	Diagnostic (Expectation: Parity with retail Res and
2 Miro No		Bus POTS with dispatch)
Z-WIRE INC	on-Loaded Loop	Diagnostic (Expectation: Parity with retail ISDN BRI (designed))
DS1-Capa		Diagnostic (Expectation: Parity with retail DS1)
	apable Loop	Diagnostic
	mpatible Loop	Diagnostic (Expectation: Parity with retail ISDN
		BRI (designed))
Enhanced I	Extended Loops-DS1 (EEL-	Diagnostic
DS1)	i x	5
Availability:	Notes:	
Available	 Notes: According to this definition, the Applicable Due Date can change, per successive customer-initiated due date changes or delays, up to the point when a CenturyLink QC-initiated due date change occurs. At that point, the Applicable Due Date becomes fixed (i.e., with no further changes) as the date on which it was set prior to the first CenturyLink QC-initiated due date change, if any. Following the first CenturyLink QC-initiated due date change, any further customer-initiated due date changes or delays are measured as time intervals that are subtracted as indicated in the formula. These delay time intervals are calculated as stated in the description. (Though infrequent, in cases where multiple CenturyLink QC-initiated due date change and subsequent customer-initiated due date change or delay. The intervals thus calculated from each pairing of CenturyLink QC and customer-initiated due dates are summed and then subtracted as indicated in the formula.) The result of this approach is that CenturyLink QC-initiated impacts on intervals are counted in the reported interval, and customer-initiated impacts on intervals are counted in the reported interval, as business day for all non-dispatched orders for Resale Residence, as well as for non-dispatched orders for Resale Residence, as well as for non-dispatched products and for all dispatched products under OP-15A, Saturday is not 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		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	5X 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 Ti	me to Restore		
Purpose: Evaluates timelir	ness of repair, focusing ho	w long it takes to restore services to proper	
operation.			
Description:			
Measures the time actually taken to clear trouble reports.			
 Includes all trouble reports closed during the reporting period, subject to exclusions specified below. 			
 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/s	ervices listed in Product Reporting under " <u>MSA</u> - " will be reported according to trouble reports	
individual	5	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: 		
	MR-6D In In	<u>terval Zone 1</u> areas; and <u>terval Zone 2</u> areas.	
Formula:			
	Frouble Report Cleared) – le Reports closed in the re	(Date & Time Trouble Report Opened)] ÷ (Total eporting 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 FID.		
Product Reporting:		Standards:
MSA-Type Disaggregati	on	
Resale Residential single 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-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:	
	1. Should the standard	repair interval for SubLoops be changed
	to 4 hours, as applic	able to interconnection agreements
	(ICAs) of all CLECs	opted into the CenturyLink QC
		nce plan (Exhibit K of ICAs), the retail
		come "Retail DS1 Private Line."

MR-7 – Repair Repeat Report Rate

•			
Purpose:			
	ccuracy of repair actions, focusing on the number of repeated trouble		
	for the same line/circuit within a specified period (30 calendar days).		
Description:			
Measures the percentage of trouble reports that are repeated within 30 days on end user			
lines and circuits			
 trouble report service (rega service), subj In determinin number or cin period with re Includes reporcustomer-relation 	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 rcuit 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. eriod applied in the numerator of the formula below is from the date and		
time that the	nitial 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., Unit of Measure: Percent		
measurements the cover the 30-day	results first appear in reports one month later than results for measurements that are not reported in arrears), in order to cover the 30-day period following the initial trouble report.		
Reporting	Disaggregation Reporting: Statewide level.		
Comparisons: CLEC aggregate, individual	 Results for product/services listed in Product Reporting under "<u>MSA</u>- Type Disaggregation" will be reported according to trouble reports involving: MR-7A Dispatches within MSAs; 		
CLEC, and	MR-7B Dispatches outside MSAs; and		
CenturyLink	MR-7C No dispatches.		
 QC Retail 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.		
Formula: [(Total trouble reports closed within the reporting period that had a repeated trouble report received within 30 calendar days of when the initial trouble report closed) ÷ (Total number of Trouble Reports Closed in the reporting period)] x 100			
Action, Non-T	ts coded to non-CenturyLink QC causes or dispositions, e.g., Customer elco Plant, Trouble Beyond the Network Interface, Miscellaneous – Non-		

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	, Disaggregation Reporting:
individual CLEC, and CenturyLink QC Retail	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:
	 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.

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) ÷ (Total Trouble Reports Closed in the Reporting Period)] x 100				
Exclusions:				
Dispatch, non-CenturyLink QC, and Carrier Action (IEC).Subsequent trouble reports of aInformation tickets generated fo	e Beyond the Network Interface, Miscellaneous – Non- CPE, Customer Instruction, Carrier, Alternate Provider, ny trouble before the original trouble report is closed. r 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	

 Availability:
 Available

 Notes:

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	g: 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, electronically-transmitted bills to CLECs, focusing 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		
Bonarting Comparisons: Combined	Disagragation Bonorting: State lovel		
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	less) ÷ (Total Number of Invoices)] x 100		
Exclusions:			
 Bills transmitted via paper, magnetic tape, 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)		
	Diagnostic (Fairty by Design)		
	Notes:		
Availability:	110163.		
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	part or in total, adjustment codes related to billing			
	ing is added to the sum in its entirety.)			
Reporting Period: One month	Unit of Measure: Percent			
Reporting Comparisons: CLEC	Disaggregation Reporting: State level			
aggregate, individual CLECs Formula:				
Formula:	ng Period - Amounts Adjusted Off Bills Due to Reporting Period)] x 100			
Formula: $\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=$	•			
Formula: [Σ (Total Billed Revenue Billed in Reportir Errors) ÷ (Total Billed Revenue billed in F	•			
Formula: [∑(Total Billed Revenue Billed in Reportir Errors) ÷ (Total Billed Revenue billed in F Exclusions: ●BI-3A - UNEs and Resale – None	Reporting Period)] x 100			
Formula: [∑(Total Billed Revenue Billed in Reportir Errors) ÷ (Total Billed Revenue billed in F Exclusions: ●BI-3A - UNEs and Resale – None	Reporting Period)] x 100			
Formula: [∑(Total Billed Revenue Billed in Reportir Errors) ÷ (Total Billed Revenue billed in F Exclusions: ●BI-3A - UNEs and Resale – None ●BI-3B - Reciprocal Compensation Minut	Reporting Period)] x 100			
 Formula: [∑(Total Billed Revenue Billed in Reportin Errors) ÷ (Total Billed Revenue billed in F Exclusions: BI-3A - UNEs and Resale – None BI-3B - Reciprocal Compensation Minut CLEC-caused errors in return of minute Product Reporting: 	Reporting Period)] x 100 tes of Use – Billing adjustments as a result of s of use			
 Formula: [∑(Total Billed Revenue Billed in Reportir Errors) ÷ (Total Billed Revenue billed in F Exclusions: BI-3A - UNEs and Resale – None BI-3B - Reciprocal Compensation Minut CLEC-caused errors in return of minute 	Reporting Period)] x 100 tes of Use – Billing adjustments as a result of s of use			
 Formula: [∑(Total Billed Revenue Billed in Reportin Errors) ÷ (Total Billed Revenue billed in F Exclusions: BI-3A - UNEs and Resale – None BI-3B - Reciprocal Compensation Minut CLEC-caused errors in return of minute Product Reporting: BI-3A – UNE Loops and Resale 	Reporting Period)] x 100 tes of Use – Billing adjustments as a result of s of use			
 Formula: [∑(Total Billed Revenue Billed in Reportin Errors) ÷ (Total Billed Revenue billed in F Exclusions: BI-3A - UNEs and Resale – None BI-3B - Reciprocal Compensation Minut CLEC-caused errors in return of minute Product Reporting: BI-3A – UNE Loops and Resale Residence 	Reporting Period)] x 100 tes of Use – Billing adjustments as a result of s of use			
 Formula: [∑(Total Billed Revenue Billed in Reportin Errors) ÷ (Total Billed Revenue billed in F Exclusions: •BI-3A - UNEs and Resale – None •BI-3B - Reciprocal Compensation Minut CLEC-caused errors in return of minute Product Reporting: • BI-3A – UNE Loops and Resale Residence • BI-3B - Reciprocal Compensation 	Reporting Period)] x 100 tes of Use – Billing adjustments as a result of s of use			

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 = $[\Sigma(Count of service orders with non-recurring and recurring charges associated with completed service orders on the bills that are billed on the correct bill ÷ total count of service orders with non-recurring and recurring charges associated with completed service orders billed on the bill)] x 100$

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: None)		
	ig: d Resale Residence mpensation (MOU)	Standards:	Diagnostic
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.

Reporting Period: One m	onth	Unit of Measure:		
		Seconds		
 Reporting Comparisons: DB-1B-LIDB: Combined CenturyLink QC Retail, and Facilities Based CL DB-1C-1-Listings: Combined for all Provider types ind CenturyLink QC Retail, CLEC, and Facilities Based ILEC and Unknown Pro Electronically Submitted Processed updates. NOT 	I results for all Reseller CLEC EC updates; bined results cluding Reseller sed CLEC, vider, I, Electronically	Disaggregation Reporting: DB-1B: LIDB for CenturyLink QC Retail, Reseller CLEC and Facilities Based CLEC – Multi state region-wide level DB-1C-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: $\Sigma[(Date and Time of database update for each database update as specified under Disaggregation Reporting in the reporting period) – (Date and Time of submissions of data for entry into the database for each database update as specified under Disaggregation Reporting in the reporting period)] ÷ Total database updates as specified under Disaggregation Reporting completed in the reporting period$				
	Exclusion: Invalid start/stop dates/times.			
Product Reporting: Not applicable (Reported by database type)Standards: Diagnostic				
Availability: Available	QC Retail, R	ey cannot be separated, results for CenturyLink Reseller CLEC, Facilities-based CLECs, ILEC vn 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	e month	Unit of Measure: Percent Blockage
Reporting	Disaggregation Re	oorting: Statewide level.
Comparisons: CLEC aggregate, individual	Reports the percent trunks, reported by:	age of trunks blocking in interconnection final
CLEC, and CenturyLink QC Interoffice trunk blocking results.	NI-1A Interconnec offices, with specified be NI-1B LIS trunks t related exc NI-1C LIS trunks t TGSR-relat NI-1D LIS trunks t	ction (LIS) trunks to CenturyLink QC tandem n TGSR-related exclusions applied as elow; to CenturyLink QC end offices, with TGSR- lusions applied as specified below; to CenturyLink QC tandem offices, without red exclusions; to other CenturyLink QC end offices, without red 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).

NI-1 – Trunk Blockin			
<u>For NI-1A, NI-1B, NI-1</u>			
a) Trunk groups, blocking in excess of one percent in the reporting period, for which			
-	an identify, in time to incorporate in the regular reporting of this		
-	cause as being attributable to:		
. .	t-of-service conditions arising from cable cuts, severe weather, or		
force majeure of			
	ing trunks in a "busy" condition;		
,	nnection facilities to fulfill LIS requests for which the CLEC did not		
	y forecast to CenturyLink QC. (This portion of the exclusion is limited		
U	d in (a) the month the LIS requests could not be fulfilled, due to <u>lack</u>		
	(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		
	ever is sooner ^{NOTE 4}); or		
	nces 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.			
. .	• Trunk groups recently activated that have not been in service for a full "20-high-day,		
,	busy hour" review period.		
network.	Toll trunks, non-final trunks, and trunks that are not connected to the public switched activerk		
 One-way trunks originating at CLEC end offices. 			
 CenturyLink QC official services trunks, local interoffice operator and directory 			
• CenturyLink QC official services trunks, local interoffice operator and directory assistance trunks, and local interoffice 911/E911 trunks.			
 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		
LIS Trunks	reported as specified below for NI-1A and NI-1B:		
	NI-1A: Comparison with CenturyLink QC Interoffice Trunks to		
	tandems		

•	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 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 blocking. 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
	is issued and in the month in which the above-specified 20-day

NI-1 – Trunk Blocking (Continued)

-	 -	J
		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 <u>Ready for Service</u> <u>Date (RFS) date</u> 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.
- 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 <u>business day</u> 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.
- <u>Establishment of RFS Dates</u>: 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.
 - <u>Unforecasted Collocations</u>: 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:
 - 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.
- <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 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.
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. Product Reporting: None Standards: Diagnostic		
Availability: Notes: Available 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 of 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 final 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).		 this measurement are central office related. entral office collocation are defined and uded in this measurement. Non-central office- on (such as remote collocation and field be considered for either inclusion in this v, separate measurements, after the terms, ses for such collocation types become finalized, six months of experience from first ed in volumes warranting reporting (i.e.,

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)
СКТ	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.)