





# **EXHIBIT AJV-1**

## **BellSouth Service Quality Measurement Plan (SQM)**

# **BellSouth Service Quality Measurement Plan (SQM)**

**Georgia Performance Metrics**

**Measurement Descriptions  
Version 1.01**

**Issue Date: April 6, 2001**

**This version of the Georgia SQM reflects the Order in GA Docket 7892-U. Some of the measures, business rules, disaggregations and/or exclusions are under development and will be reflected in the monthly reports in the near future. The other Georgia SQM posted on this site will be removed at that time.**

## Introduction

The BellSouth Service Quality Measurement Plan (SQM) describes in detail the measurements produced to evaluate the quality of service delivered to BellSouth's customers both wholesale and retail. The SQM was developed to respond to the requirements of the Communications Act of 1996 Section 251 (96 Act) which required BellSouth to provide non-discriminatory access to Competitive Local Exchange Carriers (CLEC)<sup>1</sup> and its Retail Customers. The reports produced by the SQM provide regulators, CLECs and BellSouth the information necessary to monitor the delivery of non-discriminatory access.

This plan results from the many divergent forces evolving from the 96 Act. The 96 Act, the Georgia Public Service Commission (GPSC) Order (Docket 7892-U 12/30/97), LCUG 1-7.0, the FCC's NPRM (CC Docket 98-56 RM9101 04/17/98), the Louisiana Public Service Commission (LPSC) Order (Docket U-22252 Subdocket C 04/19/98), numerous arbitration cases, LPSC sponsored collaborative workshops (10/98-02/00), and proceedings in Alabama, Mississippi, and North Carolina have and continue to influence the SQM. **This version of the SQM reflects the Order of the Georgia Public Service Commission in Docket 7892-U dated January 12, 2001.**

The SQM and the reports flowing from it must change to reflect the dynamic requirements of the industry. New measurements are added as new products, systems, and processes are developed and fielded. New products and services are added as the markets for them develop and the processes stabilize. The measurements are also changed to reflect changes in systems, correct errors, and respond to both 3<sup>rd</sup> Party audit requirements and the Georgia PSC.

This document is intended for use by someone with knowledge of telecommunications industry, information technologies and a functional knowledge of the subject areas covered by the BellSouth Performance Measurements and the reports that flow from them.

Once it is approved, the most current copy of this document can be found on the web at URL: <https://pmap.bellsouth.com> in the Help folder.

## Report Publication Dates

Each month, preliminary SQM reports will be posted to BellSouth's SQM web site (<https://www.pmap.bellsouth.com>) by 8:00 A.M. EST on the 21st day of each month or the first business day after the 21st. Final validated SQM reports will be posted by 8:00 A.M. on the last day of the month. Reports not posted by this time will be considered late for SEEM payment purposes. Preliminary SEEM reports will be posted on the same day as the SQM validated reports. Validated SEEM reports will be posted on the 15th of the following month. Payments due will also be paid on the 15th of the following month. For instance: May data will be posted in preliminary SQM reports on June 21. Final validated SQM reports and preliminary SEEM reports will be posted on the last day of June. Final validated SEEM reports will be posted and payments mailed on July 15th.

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*1. Alternative Local Exchange Companies (ALEC) and Competing Local Providers (CLP) are referred to as Competitive Local Exchange Carriers (CLEC) in this document.*



## Report Delivery Methods

CLEC SQM and SEEM reports will be considered delivered when posted to the web site. The Georgia Public Service Commission (GPSC) will be given access to the web site. In addition, a copy of the Monthly State Summary reports will be filed with the GPSC as soon as possible after the last day of each month.

## Contents

### Section 1: Operations Support Systems (OSS)

OSS-1:	Average Response Time and Response Interval (Pre-Ordering/Ordering)	1-1
OSS-2:	Interface Availability (Pre-Ordering/Ordering)	1-6
OSS-3:	Interface Availability (Maintenance & Repair)	1-9
OSS-4:	Response Interval (Maintenance & Repair)	1-11
PO-1:	Loop Makeup - Response Time – Manual	1-13
PO-2:	Loop Make Up - Response Time - Electronic	1-15

### Section 2: Ordering

O-1:	Acknowledgement Message Timeliness	2-1
O-2:	Acknowledgement Message Completeness	2-3
O-3:	Percent Flow-Through Service Requests (Summary)	2-5
O-4:	Percent Flow-Through Service Requests (Detail)	2-8
O-5:	Flow-Through Error Analysis	2-11
O-6:	CLEC LSR Information	2-13
O-7:	Percent Rejected Service Requests	2-19
O-8:	Reject Interval	2-22
O-9:	Firm Order Confirmation Timeliness	2-25
O-10:	Service Inquiry with LSR Firm Order Confirmation (FOC) Response Time Manual	2-29
O-11:	Firm Order Confirmation and Reject Response Completeness	2-31
O-12:	Speed of Answer in Ordering Center	2-33
O-13:	LNP-Percent Rejected Service Requests	2-35
O-14:	LNP-Reject Interval Distribution & Average Reject Interval	2-37
O-15:	LNP-Firm Order Confirmation Timeliness Interval Distribution & Firm Order Confirmation Average Interval	2-40

### Section 3: Provisioning

P-1:	Mean Held Order Interval & Distribution Intervals	3-1
P-2:	Average Jeopardy Notice Interval & Percentage of Orders Given Jeopardy Notices	3-4
P-3:	Percent Missed Installation Appointments	3-7
P-4:	Average Completion Interval (OCI) & Order Completion Interval Distribution	3-10
P-5:	Average Completion Notice Interval	3-13
P-6:	% Completions/Attempts without Notice or < 24 hours Notice	3-16
P-7:	Coordinated Customer Conversions Interval	3-18
P-7A:	Coordinated Customer Conversions – Hot Cut Timeliness% Within Interval and Average Interval	3-20
P-7B:	Coordinated Customer Conversions – Average Recovery Time	3-22
P-7C:	Hot Cut Conversions - % Provisioning Troubles Received Within 7 days of a completed Service Order	3-24
P-8:	Cooperative Acceptance Testing - % of xDSL Loops Tested	3-26
P-9:	% Provisioning Troubles within 30 days of Service Order Completion	3-28
P-10:	Total Service Order Cycle Time (TSOCT)	3-31
P-11:	Service Order Accuracy	3-34
P-12:	LNP-Percent Missed Installation Appointments	3-36
P-13:	LNP-Average Disconnect Timeliness Interval & Disconnect Timeliness Interval Distribution	3-38
P-14:	LNP-Total Service Order Cycle Time (TSOCT)	3-40

**Section 4: Maintenance & Repair**

M&R-1: Missed Repair Appointments	4-1
M&R-2: Customer Trouble Report Rate	4-3
M&R-3: Maintenance Average Duration	4-5
M&R-4: Percent Repeat Troubles within 30 Days	4-7
M&R-5: Out of Service (OOS) > 24 Hours	4-9
M&R-6: Average Answer Time – Repair Centers	4-11
M&R-7: Mean Time To Notify CLEC of Network Outages	4-13

**Section 5: Billing**

B-1: Invoice Accuracy	5-1
B2: Mean Time to Deliver Invoices	5-3
B3: Usage Data Delivery Accuracy	5-5
B4: Usage Data Delivery Completeness	5-7
B5: Usage Data Delivery Timeliness	5-9
B6: Mean Time to Deliver Usage	5-11
B7: Recurring Charge Completeness	5-13
B8: Non-Recurring Charge Completeness	5-15

**Section 6: Operator Services And Directory Assistance**

OS-1: Speed to Answer Performance/Average Speed to Answer - Toll	6-1
OS-2: Speed to Answer Performance/Percent Answered with "X" Seconds – Toll	6-3
DA-1: Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA)	6-4
DA-2: Speed to Answer Performance/Percent Answered within "X" Seconds – Directory Assistance (DA)	6-6

**Section 7: Database Update Information**

D-1: Average Database Update Interval	7-1
D-2: Percent Database Update Accuracy	7-3
D-3: Percent NXXs and LRNs Loaded by the LERG Effective Date	7-5

**Section 8: E911**

E-1: Timeliness	8-1
E-2: Accuracy	8-3
E-3: Mean Interval	8-4

**Section 9: Trunk Group Performance**

TGP-1: Trunk Group Performance-Aggregate	9-1
TGP-2: Trunk Group Performance-CLEC Specific	9-4

**Section 10: Collocation**

C-1: Collocation Average Response Time	10-1
C-2: Collocation Average Arrangement Time	10-3
C-3: Collocation Percent of Due Dates Missed	10-5

**Section 11: Change Management**

CM-1: Timeliness of Change Management Notices	11-1
CM-2: Change Management Notice Average Delay Days	11-3
CM-3: Timeliness of Documents Associated with Change	11-5
CM-4: Change Management Documentation Average Delay Days	11-7
CM-5: Notification of CLEC Interface Outages	11-9

**Section 12: Bona Fide / New Business Request Process**

BFR-1: Percentage of BFR/NBR Requests Processed Within 30 Business Days	12-1
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BFR-2: Percentage of Quotes Provided for Authorized BFR/NBR Requests Processed Within X (10/30/60) Business Days --- 12-3

**Appendix A: Reporting Scope** **A-1**

A-1: Standard Service Groupings----- A-1  
A-2: Standard Service Order Activities----- A-1

**Appendix B: Glossary of Acronyms and Terms** **B-1**

**Appendix C: BellSouth Audit Policy** **C-1**

## Section 1: Operations Support Systems (OSS)

### OSS-1: Average Response Time and Response Interval (Pre-Ordering/Ordering)

#### Definition

Average response time and response intervals are the average times and number of requests responded to within certain intervals for accessing legacy data associated with appointment scheduling, service & feature availability, address verification, request for Telephone numbers (TNs), and Customer Service Records (CSRs).

#### Exclusions

None

#### Business Rules

The average response time for retrieving pre-order/order information from a given legacy system is determined by summing the response times for all requests submitted to the legacy systems during the reporting period and dividing by the total number of legacy system requests for that month.

The response interval starts when the client application (LENS or TAG for CLECs and RNS or ROS for BellSouth) submits a request to the legacy system and ends when the appropriate response is returned to the client application. The number of accesses to the legacy systems during the reporting period which take less than 2.3 seconds, the number of accesses which take more than 6 seconds, and the number which are less than or equal to 6.3 seconds are also captured.

#### Calculation

**Response Time** = (a - b)

- a = Date & Time of Legacy Response
- b = Date & Time of Legacy Request

**Average Response Time** = c ÷ d

- c = Sum of Response Times
- d = Number of Legacy Requests During the Reporting Period

#### Report Structure

- Not CLEC Specific
- Not product/service specific
- Regional Level

#### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Legacy Contract (per reporting dimension)</li> <li>• Response Interval</li> <li>• Regional Scope</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Legacy Contract (per reporting dimension)</li> <li>• Response Interval</li> <li>• Regional Scope</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	SQM Analog/Benchmark
<ul style="list-style-type: none"> <li>• <b>RSAG – Address</b> (Regional Street Address Guide-Address) – stores street address information used to validate customer addresses. CLECs and BellSouth query this legacy system.</li> <li>• <b>RSAG – TN</b> (Regional Street Address Guide-Telephone number) – contains information about facilities available and telephone numbers working at a given address. CLECs and BellSouth query this legacy system.</li> <li>• <b>ATLAS</b> (Application for Telephone Number Load Administration and Selection) – acts as a warehouse for storing telephone numbers that are available for assignment by the system. It enables CLECs and BellSouth service reps to select and reserve telephone numbers. CLECs and BellSouth query this legacy system.</li> <li>• <b>COFFI</b> (Central Office Feature File Interface) – stores information about product and service offerings and availability. CLECs query this legacy system.</li> <li>• <b>DSAP</b> (DOE Support Application) – provides due date information. CLECs and BellSouth query this legacy system.</li> <li>• <b>HAL/CRIS</b> (Hands-Off Assignment Logic/Customer Record Information System) – a system used to access the Business Office Customer Record Information System (BOCRIS). It allows BellSouth servers, including LENS, access to legacy systems. CLECs query this legacy system.</li> <li>• <b>P/SIMS</b> (Product/Services Inventory Management system) – provides information on capacity, tariffs, inventory and service availability. CLECs query this legacy system.</li> <li>• <b>OASIS</b> (Obtain Available Services Information Systems) – Information on feature and rate availability. BellSouth queries this legacy system.</li> </ul>	<ul style="list-style-type: none"> <li>• Parity + 2 seconds</li> </ul>

OSS-1: Average Response Time and Response Interval (Pre-Ordering/Ordering)

**Table 1: Legacy System Access Times For RNS**

System	Contract	Data	< 2.3 sec.	> 6 sec.	≤ 6.3 sec.	Avg. Sec.	# of Calls
RSAG	RSAG-TN	Address	x	x	x	x	x
RSAG	RSAG-ADDR	Address	x	x	x	x	x
ATLAS	ATLAS-TN	TN	x	x	x	x	x
DSAP	DSAP	Schedule	x	x	x	x	x
CRIS	CRSACCTS	CSR	x	x	x	x	x
OASIS	OASISCAR	Feature/Service	x	x	x	x	x
OASIS	OASISLPC	Feature/Service	x	x	x	x	x
OASIS	OASISMTN	Feature/Service	x	x	x	x	x
OASIS	OASISBIG	Feature/Service	x	x	x	x	x

**Table 2: Legacy System Access Times For R0S**

System	Contract	Data	< 2.3 sec.	> 6 sec.	≤ 6.3 sec.	Avg. sec.	# of Calls
RSAG	RSAG-TN	Address	x	x	x	x	x
RSAG	RSAG-ADDR	Address	x	x	x	x	x
ATLAS	ATLAS-TN	TN	x	x	x	x	x

**Table 2: Legacy System Access Times For R0S**

System	Contract	Data	< 2.3 sec.	> 6 sec.	≤6.3 sec.	Avg. sec.	# of Calls
DSAP	DSAP	Schedule	x	x	x	x	x
CRIS	CRSOCSR	CSR	x	x	x	x	x
OASIS	OASISBIG	Feature/Service	x	x	x	x	x

**Table 3: Legacy System Access Times For LENS**

System	Contract	Data	< 2.3 sec.	> 6 sec.	≤6.3 sec.	Avg. sec.	# of Calls
RSAG	RSAG-TN	Address	x	x	x	x	x
RSAG	RSAG-ADDR	Address	x	x	x	x	x
ATLAS	ATLAS-TN	TN	x	x	x	x	x
DSAP	DSAP	Schedule	x	x	x	x	x
HAL	HAL/CRIS	CSR	x	x	x	x	x
COFFI	COFFI/USOC	Feature/Service	x	x	x	x	x
P/SIMS	PSIMS/ORB	Feature/Service	x	x	x	x	x

**Table 4: Legacy System Access Times For TAG**

System	Contract	Data	< 2.3 sec.	> 6 sec.	≤6.3 sec.	Avg. sec.	# of Calls
RSAG	RSAG-TN	Address	x	x	x	x	x
RSAG	RSAG-ADDR	Address	x	x	x	x	x
ATLAS	ATLAS-TN	TN	x	x	x	x	x
ATLAS	ATLAS-MLH	TN	x	x	x	x	x
ATLAS	ATLAS-DID	TN	x	x	x	x	x
DSAP	DSAP	Schedule	x	x	x	x	x
CRIS	CRSECSRL	CSR	x	x	x	x	x
CRIS	CRSECSR	CSR	x	x	x	x	x

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X
	Tier III	

Note: CLEC specific data is not available in this measure. Queries of this sort do not have company specific signatures.

OSS-1: Average Response Time and Response Interval (Pre-Ordering/Ordering)

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• <b>RSAG – Address</b> (Regional Street Address Guide-Address) – stores street address information used to validate customer addresses. CLECs and BellSouth query this legacy system.</li> <li>• <b>RSAG – TN</b> (Regional Street Address Guide-Telephone number) – contains information about facilities available and telephone numbers working at a given address. CLECs and BellSouth query this legacy system.</li> <li>• <b>ATLAS</b> (Application for Telephone Number Load Administration and Selection) – acts as a warehouse for storing telephone numbers that are available for assignment by the system. It enables CLECs and BellSouth service reps to select and reserve telephone numbers. CLECs and BellSouth query this legacy system.</li> <li>• <b>COFFI</b> (Central Office Feature File Interface) – stores information about product and service offerings and availability. CLECs query this legacy system.</li> <li>• <b>DSAP</b> (DOE Support Application) – provides due date information. CLECs and BellSouth query this legacy system.</li> <li>• <b>HAL/CRIS</b> (Hands-Off Assignment Logic/Customer Record Information System) – a system used to access the Business Office Customer Record Information System (BOCRIS). It allows BellSouth servers, including LENS, access to legacy systems. CLECs query this legacy system.</li> <li>• <b>P/SIMS</b> (Product/Services Inventory Management system) – provides information on capacity, tariffs, inventory and service availability. CLECs query this legacy system.</li> <li>• <b>OASIS</b> (Obtain Available Services Information Systems) – Information on feature and rate availability. BellSouth queries this legacy system.</li> </ul>	<ul style="list-style-type: none"> <li>• Percent Response Received within 6.3 seconds: &gt; 95%</li> <li>• Parity + 2 seconds</li> </ul>

OSS-1: Average Response Time and Response Interval (Pre-Ordering/Ordering)

**SEEM OSS Legacy Systems**

System	BellSouth	CLEC
<b>Telephone Number/Address</b>		
RSAG-ADDR	RNS, ROS	TAG LENS
RSAG-TN	RNS, ROS	TAG LENS
ATLAS	RNS,ROS	TAG LENS
<b>Appointment Scheduling</b>		
DSAP	RNS, ROS	TAG LENS
<b>CSR Data</b>		
CRSACCTS	RNS	
CRSOCSR	ROS	
HAL/CRIS		LENS
CRSECSRL		TAG
CRSECSR		TAG
<b>Service/Feature Availability</b>		
OASISBIG	RNS, ROS	
PSIMS/ORB		LENS

OSS-1: Average Response Time and Response Interval (Pre-Ordering/Ordering)

## OSS-2: Interface Availability (Pre-Ordering/Ordering)

### Definition

Percent of time applications are functionally available as compared to scheduled availability. Calculations are based upon availability of applications and interfacing applications utilized by CLECs for pre-ordering and ordering. "Functional Availability" is defined as the number of hours in the reporting period that the applications/interfaces are available to users. "Scheduled Availability" is defined as the number of hours in the reporting period that the applications/interfaces are scheduled to be available.

Scheduled availability is posted on the Interconnection web site: ([www.interconnection.bellsouth.com/oss/oss\\_hour.html](http://www.interconnection.bellsouth.com/oss/oss_hour.html))

### Exclusions

- CLEC-impacting troubles caused by factors outside of BellSouth's purview, e.g., troubles in customer equipment, troubles in networks owned by telecommunications companies other than BellSouth, etc.
- Degraded service, e.g., slow response time, loss of non-critical functionality, etc.

### Business Rules

This measurement captures the functional availability of applications/interfaces as a percentage of scheduled availability for the same systems. Only full outages are included in the calculations for this measure. Full outages are defined as occurrences of either of the following:

- Application/interfacing application is down or totally inoperative.
- Application is totally inoperative for customers attempting to access or use the application. This includes transport outages when they may be directly associated with a specific application.

Comparison to an internal benchmark provides a vehicle for determining whether or not CLECs and retail BST entities are given comparable opportunities for use of pre-ordering and ordering systems.

### Calculation

**Interface Availability (Pre-Ordering/Ordering) = (a ÷ b) X 100**

- a = Functional Availability
- b = Scheduled Availability

### Report Structure

- Not CLEC Specific
- Not product/service specific
- Regional Level

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Legacy Contract Type (per reporting dimension)</li> <li>• Regional Scope</li> <li>• Hours of Downtime</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Legacy Contract Type (per reporting dimension)</li> <li>• Regional Scope</li> <li>• Hours of Downtime</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	SQM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Regional Level</li> </ul>	<ul style="list-style-type: none"> <li>• ≥ 99.5%</li> </ul>

**OSS Interface Availability**

Application	Applicable to	% Availability
EDI	CLEC	x
TAG	CLEC	x
LENS	CLEC	x
LEO	CLEC	x
LESOG	CLEC	x
LNP Gateway	CLEC	x
COG	CLEC	Under Development
SOG	CLEC	Under Development
DOM	CLEC	Under Development
DOE	CLEC/BST	x
SONGS	CLEC/BST	x
ATLAS/COFFI	CLEC/BST	x
BOCRIS	CLEC/BST	x
DSAP	CLEC/BST	x
RSAG	CLEC/BST	x
SOCS	CLEC/BST	x
CRIS	CLEC/BST	x

OSS-2: Interface Availability (Pre-Ordering/Ordering)

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Regional Level	• ≥ 99.5%



**SEEM OSS Interface Availability**

Application	Applicable to	% Availability
EDI	CLEC	x
HAL	CLEC	x
LENS	CLEC	x
LEO Mainframe	CLEC	x
LESOG	CLEC	x
PSIMS	CLEC	x
TAG	CLEC	x

OSS-2: Interface Availability (Pre-Ordering/Ordering)

## OSS-3: Interface Availability (Maintenance & Repair)

### Definition

Percent of time applications are functionally available as compared to scheduled availability. Calculations are based upon availability of applications and interfacing applications utilized by CLECs for maintenance and repair. "Functional Availability" is defined as the number of hours in the reporting period that the applications/interfaces are available to users. "Scheduled Availability" is defined as the number of hours in the reporting period that the applications/interfaces are scheduled to be available.

Scheduled availability is posted on the Interconnection web site: ([www.interconnection.bellsouth.com/oss/oss\\_hour.html](http://www.interconnection.bellsouth.com/oss/oss_hour.html))

### Exclusions

- CLEC-impacting troubles caused by factors outside of BellSouth's purview, e.g., troubles in customer equipment, troubles in networks owned by telecommunications companies other than BellSouth, etc.
- Degraded service, e.g., slow response time, loss of non-critical functionality, etc.

### Business Rules

This measurement captures the functional availability of applications/interfaces as a percentage of scheduled availability for the same systems. Only full outages are included in the calculations for this measure. Full outages are defined as occurrences of either of the following:

- Application/interfacing application is down or totally inoperative.
- Application is totally inoperative for customers attempting to access or use the application. This includes transport outages when they may be directly associated with a specific application.

Comparison to an internal benchmark provides a vehicle for determining whether or not CLECs and retail BST entities are given comparable opportunities for use of maintenance and repair systems.

### Calculation

**OSS Interface Availability**  $(a \div b) \times 100$

- a = Functional Availability
- b = Scheduled Availability

### Report Structure

- Not CLEC Specific
- Not Product/Service Specific
- Regional Level

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Availability of CLEC TAFI</li> <li>• Availability of LMOS HOST, MARCH, SOCS, CRIS, PREDICTOR, LNP and OSPFCM</li> <li>• ECTA</li> </ul>	<ul style="list-style-type: none"> <li>• Availability of BellSouth TAFI</li> <li>• Availability of LMOS HOST, MARCH, SOCS, CRIS, PREDICTOR, LNP and OSPFCM</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Regional Level</li> </ul>	<ul style="list-style-type: none"> <li>• <math>\geq 99.5\%</math></li> </ul>

**OSS Interface Availability (M&R)**

OSS Interface	% Availability
BST TAFI	x
CLEC TAFI	x
CLEC ECTA	x
<b>BST &amp; CLEC</b>	x
CRIS	x
LMOS HOST	x
LNP	x
MARCH	x
OSPCM	x
PREDICTOR	x
SOCS	x

OSS-3: Interface Availability (Maintenance & Repair)

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Regional Level	• ≥ 99.5%

**OSS Interface Availability (M&R)**

OSS Interface	% Availability
CLEC TAFI	x
CLEC ECTA	x

## OSS-4: Response Interval (Maintenance & Repair)

### Definition

The response intervals are determined by subtracting the time a request is received on the BellSouth side of the interface from the time the response is received from the legacy system. Percentages of requests falling into each interval category are reported, along with the actual number of requests falling into those categories.

### Exclusions

None

### Business Rules

This measure is designed to monitor the time required for the CLEC and BellSouth interface system to obtain from BellSouth's legacy systems the information required to handle maintenance and repair functions. The clock starts on the date and time when the request is received on the BellSouth side of the interface and the clock stops when the response has been transmitted through that same point to the requester.

**Note:** The OSS Response Interval BellSouth Total Report is a combination of BellSouth Residence and Business Total.

### Calculation

**OSS Response Interval** = (a - b)

- a = Query Response Date and Time
- b = Query Request Date and Time

**Percent Response Interval** (per category) = (c ÷ d) X 100

- c = Number of Response Intervals in category "X"
- d = Number of Queries Submitted in the Reporting Period

where, "X" is ≤ 4, > 4 ≤ 10, ≥ 10, or > 30 seconds.

### Report Structure

- Not CLEC Specific
- Not product/service specific
- Regional Level

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
• CLEC Transaction Intervals	• BellSouth Business and Residential Transactions Intervals

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark:
• Regional Level	• Parity

**Legacy System Access Times for M&R**

System	BellSouth & CLEC	Count				
		≤ 4	> 4 ≤ 10	≤ 10	> 10	> 30
CRIS	x	x	x	x	x	x
DLETH	x	x	x	x	x	x
DLR	x	x	x	x	x	x
LMOS	x	x	x	x	x	x
LMOSupd	x	x	x	x	x	x
LNP	x	x	x	x	x	x
MARCH	x	x	x	x	x	x
OSPCM	x	x	x	x	x	x
Predictor	x	x	x	x	x	x
SOCS	x	x	x	x	x	x
NIW	x	x	x	x	x	x

OSS-4: Response Interval (Maintenance &amp; Repair)

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## PO-1: Loop Makeup - Response Time – Manual

### Definition

This report measures the average interval and percent within the interval from the submission of a Manual Loop Makeup Service Inquiry (LMUSI) to the distribution of Loop Makeup information back to the CLEC.

### Exclusions

- Inquiries, which are submitted electronically.
- Designated Holidays are excluded from the interval calculation.
- Weekend hours from 5:00PM Friday until 8:00AM Monday are excluded from the interval calculation.
- Canceled Inquiries.

### Business Rules

The CLEC Manual Loop Makeup Service Inquiry (LMUSI) process includes inquiries submitted via mail or FAX to BellSouth's Complex Resale Support Group (CRSG).

This measurement combines three intervals:

1. From receipt of the Service Inquiry for Loop Makeup to hand off to the Service Advocacy Center (SAC) for "Look-up."
2. From SAC start date to SAC complete date.
3. From SAC complete date to date the Complex Resale Support Group (CRSG) distributes loop makeup information back to the CLEC.

The "Receive Date" is defined as the date the Manual LMUSI is received by the CRSG. It is counted as day Zero. LMU "Return Date" is defined as the date the LMU information is sent back to the CLEC from BellSouth. The interval calculation is reset to Zero when a CLEC initiated change occurs on the Manual LMU request.

**Note:** The Loop Make Up Service Inquiry Form does not require the CLEC to furnish the type of Loop. The CLEC determines whether the loop makeup will support the type of service they wish to order or not and qualifies the loop. If the loop makeup will support the service, a firm order LSR is submitted by the CLEC.

### Calculation

**Response Interval** = (a - b)

- a = Date and Time LMUSI returned to CLEC
- b = Date and Time the LMUSI is received

**Average Interval** = (c + d)

- c = Sum of all Response Intervals
- d = Total Number of LMUSIs received within the reporting period

**Percent within interval** = (e + f) X 100

- e = Total LMUSIs received within the interval
- f = Total Number of LMUSIs processed within the reporting period

### Report Structure

- CLEC Aggregate
- CLEC Specific
- Geographic Scope
  - State
  - Region
- Interval for manual LMUs:
  - 0 - 1 day
  - >1 - 2 days
  - >2 - 3 days
  - 0 - ≤ 3 days
  - >3 - 6 days

- >6 – 10 days
- > 10 days
- Average Interval in days

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of Inquiries</li> <li>• SI Intervals</li> <li>• State and Region</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Loops</li> </ul>	Benchmark <ul style="list-style-type: none"> <li>• 95% in 3 Business Days</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Loops</li> </ul>	Benchmark <ul style="list-style-type: none"> <li>• 95% in 3 Business Days</li> </ul>

## PO-2: Loop Make Up - Response Time - Electronic

### Definition

This report measures the average interval and the percent within the interval from the electronic submission of a Loop Makeup Service Inquiry (LMUSI) to the distribution of Loop Makeup information back to the CLEC.

### Exclusions

- Manually submitted inquiries.
- Designated Holidays are excluded from the interval calculation.
- Canceled Requests.
- Scheduled OSS Maintenance.

### Business Rules

The response interval starts when the CLEC's Mechanized Loop Makeup Service Inquiry (LMUSI) is submitted electronically through the Operational Support Systems interface, LENS, TAG or RoboTAG. It ends when BellSouth's Loop Facility Assignment and Control System (LFACS) responds electronically to the CLEC with the requested Loop Makeup data via LENS, TAG or RoboTAG Interfaces.

**Note:** The Loop Make Up Service Inquiry Form does not require the CLEC to furnish the type of Loop. The CLEC determines whether the loop makeup will support the type of service they wish to order or not and qualifies the loop. If the loop makeup will support the service, a firm order LSR is submitted by the CLEC. EDI is not a pre-ordering system, and, therefore, is not applicable in this measure.

### Calculation

**Response Interval** = (a - b)

- a = Date and Time LMUSI returned to CLEC
- b = Date and Time the LMUSI is received

**Average Interval** = (c ÷ d)

- c = Sum of all response intervals
- d = Total Number of LMUSIs received within the reporting period

**Percent within interval** = (e ÷ f) X 100

- e = Total LMUSIs received within the interval
- f = Total Number of LMUSIs processed within the reporting period

### Report Structure

- CLEC Aggregate
- CLEC Specific
- Geographic Scope
  - State
  - Region
- Interval for electronic LMUs:
  - 0 - 1 minute
  - >1 - 5 minutes
  - 0 - ≤ 5 minutes
  - > 5 - 8 minutes
  - > 8 - 15 minutes
  - > 15 minutes
- Average Interval in minutes



**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Legacy Contract</li> <li>• Response Interval</li> <li>• Regional Scope</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Loops</li> </ul>	Benchmark <ul style="list-style-type: none"> <li>• 90% in 5 Minutes (05/01/01)</li> <li>• 95% in 1 Minute (08/01/01)</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Loop</li> </ul>	<ul style="list-style-type: none"> <li>• 90% in 5 Minutes (05/01/01)</li> <li>• 95% in 1 Minute (08/01/01)</li> </ul>

PO-2: Loop Make Up - Response Time - Electronic

## Section 2: Ordering

### O-1: Acknowledgement Message Timeliness

#### Definition

This measurement provides the response interval from the time an LSR or transmission (may contain multiple LSRs from one or more CLECs in multiple states) is electronically submitted via EDI or TAG respectively until an acknowledgement notice is sent by the system.

#### Exclusions

- Scheduled OSS Maintenance

#### Business Rules

The process includes EDI & TAG system functional acknowledgements for all messages/Local Service Requests (LSRs) which are electronically submitted by the CLEC. Users of EDI may package many LSRs into one transmission which will receive the acknowledgement message. EDI users may place multiple LSRs in one "envelope" requesting service in one or more states which will mask the identity of the state and CLEC. The start time is the receipt time of the message at BellSouth's side of the interface (gateway). The end time is when the acknowledgement is transmitted by BellSouth at BellSouth's side of the interface (gateway). If more than one CLEC uses the same ordering center (aggregator), an Acknowledgement Message will be returned to the "Aggregator". However, BellSouth will not be able to determine which specific CLEC or state this message represented.

#### Calculation

**Response Interval** = (a - b)

- a = Date and Time Acknowledgement Notices returned to CLEC
- b = Date and Time messages/LSRs electronically submitted by the CLEC via EDI or TAG respectively

**Average Response Interval** = (c ÷ d)

- c = Sum of all Response Intervals
- d = Total number of electronically submitted messages/LSRs received, from CLECs via EDI or TAG respectively, in the Reporting Period.

#### Reporting Structure

- CLEC Aggregate
- CLEC Specific/Aggregator
- Geographic Scope
  - Region
- Electronically Submitted LSRs
  - 0 - ≤10 minutes
  - >10 - ≤20 minutes
  - >20 - ≤30 minutes
  - 0 - ≤30 minutes
  - >30 - ≤45 minutes
  - >45 - ≤60 minutes
  - >60 - ≤120 minutes
  - >120 minutes
- Average interval for electronically submitted messages/LSRs in minutes

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report month</li> <li>• Record of functional acknowledgements</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• EDI</li> </ul>	<ul style="list-style-type: none"> <li>• EDI                             <ul style="list-style-type: none"> <li>- 90% within 30 minutes (05/01/01)</li> <li>- 95% within 30 minutes (08/01/01)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• TAG</li> </ul>	<ul style="list-style-type: none"> <li>• TAG – 95% within 30 minutes</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• EDI</li> </ul>	<ul style="list-style-type: none"> <li>• EDI                             <ul style="list-style-type: none"> <li>- 90% within 30 minutes (05/01/01)</li> <li>- 95% within 30 minutes (08/01/01)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• TAG</li> </ul>	<ul style="list-style-type: none"> <li>• TAG – 95% within 30 minutes</li> </ul>

## O-2: Acknowledgement Message Completeness

### Definition

This measurement provides the percent of transmissions/LSRs received via EDI or TAG respectively, which are acknowledged electronically.

### Exclusions

- Manually submitted LSRs
- Scheduled OSS Maintenance

### Business Rules

EDI and TAG send Functional Acknowledgements for all transmissions/LSRs, which are electronically submitted by a CLEC. Users of EDI may package many LSRs from multiple states in one transmission. If more than one CLEC uses the same ordering center, an Acknowledgement Message will be returned to the "Aggregator", however, BellSouth will not be able to determine which specific CLEC this message represented. The Acknowledgement Message is returned prior to the determination of whether the transmission/LSR will be partially mechanized or fully mechanized.

### Calculation

$$\text{Acknowledgement Completeness} = (a \div b) \times 100$$

- a = Total number of Functional Acknowledgements returned in the reporting period for transmissions/LSRs electronically submitted by EDI or TAG respectively
- b = Total number of electronically submitted transmissions/LSRs received in the reporting period by EDI or TAG respectively

### Report Structure

- CLEC Aggregate
- CLEC Specific/Aggregator
- Geographic Scope
  - Region

**Note:** The Order calls for Mechanized, Partially Mechanized, and Totally Mechanized, however, the Acknowledgement message is generated before the system recognizes whether this electronic transmission will be partially or fully mechanized.

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record of Functional Acknowledgements</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• EDI</li> <li>• TAG</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark: 100%</li> </ul>

### SEEM Measure

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"><li>• EDI</li><li>• TAG</li></ul>	<ul style="list-style-type: none"><li>• Benchmark: 100%</li></ul>

O-2: Acknowledgement Message Completeness

## O-3: Percent Flow-Through Service Requests (Summary)

### Definition

The percentage of Local Service Requests (LSR) and LNP Local Service Requests (LNP LSRs) submitted electronically via the CLEC mechanized ordering process that flow through and reach a status for a FOC to be issued, without manual intervention.

### Exclusions

- Fatal Rejects
- Auto Clarification
- Manual Fallout
- CLEC System Fallout
- Scheduled OSS Maintenance

### Business Rules

The CLEC mechanized ordering process includes all LSRs, including supplements (subsequent versions) which are submitted through one of the three gateway interfaces (TAG, EDI and LENS), that flow through and reach a status for a FOC to be issued, without manual intervention. These LSRs can be divided into two classes of service: Business and Residence, and two types of service: Resale, and Unbundled Network Elements (UNE). The CLEC mechanized ordering process does not include LSRs which are submitted manually (for example, fax and courier) or are not designed to flow through (for example, Manual Fallout.)

#### Definitions:

**Fatal Rejects:** Errors that prevent an LSR, submitted electronically by the CLEC, from being processed further. When an LSR is submitted by a CLEC, LEO/LNP Gateway will perform edit checks to ensure the data received is correctly formatted and complete. For example, if the PON field contains an invalid character, LEO/LNP Gateway will reject the LSR and the CLEC will receive a Fatal Reject.

**Auto-Clarification:** Clarifications that occur due to invalid data within the LSR. LESOG/LAUTO will perform data validity checks to ensure the data within the LSR is correct and valid. For example, if the address on the LSR is not valid according to RSAG, or if the LNP is not available for the NPA NXXX requested, the CLEC will receive an Auto-Clarification.

**Manual Fallout:** Planned Fallout that occur by design. Certain LSRs are designed to fallout of the Mechanized Order Process due to their complexity. These LSRs are manually processed by the LCSC. When a CLEC submits an LSR, LESOG/LAUTO will determine if the LSR should be forwarded to LCSC for manual handling. Following are the categories for Manual Fallout:

1. Complex\*
2. Special pricing plans
3. Some Partial migrations
4. New telephone number not yet posted to BOCRIS
5. Pending order review required
6. CSR inaccuracies such as invalid or missing CSR data in CRIS
7. Expedites (requested by the CLEC)
8. Denials-restore and conversion, or disconnect and conversion orders
9. Class of service invalid in certain states with some types of service
10. Low volume such as activity type "T" (move)
11. More than 25 business lines, or more than 15 loops
12. Transfer of calls option for the CLEC end users
13. Directory Listings (Intentions and Captions)

\*See LSR Flow-Through Matrix following O-6 for a list of services, including complex services, and whether LSRs issued for the services are eligible to flow through.

**Total System Fallout:** Errors that require manual review by the LCSC to determine if the error is caused by the CLEC, or is due to BellSouth system functionality. If it is determined the error is caused by the CLEC, the LSR will be sent back to the CLEC for clarification. If it is determined the error is BellSouth caused, the LCSC representative will correct the error, and the LSR will continue to be processed.

**Z Status:** LSRs that receive a supplemental LSR submission prior to final disposition of the original LSR.

**Calculation**

**Percent Flow Through** =  $a \div [b - (c + d + e + f)] \times 100$

- a = The total number of LSRs that flow through LESOG/LAUTO and reach a status for a FOC to be issued
- b = the number of LSRs passed from LEO/LNP Gateway to LESOG/LAUTO
- c = the number of LSRs that fall out for manual processing
- d = the number of LSRs that are returned to the CLEC for clarification
- e = the number of LSRs that contain errors made by CLECs
- f = the number of LSRs that receive a Z status.

**Percent Achieved Flow Through** =  $a \div [b - (c + d + e)] \times 100$

- a = the number of LSRs that flow through LESOG/LAUTO and reach a status for a FOC to be issued.
- b = the number of LSRs passed from LEO/LNP Gateway to LESOG/LAUTO
- c = the number of LSRs that are returned to the CLEC for clarification
- d = the number of LSRs that contain errors made by CLECs
- e = the number of LSRs that receive Z status

**Report Structure**

- CLEC Aggregate
  - Region

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance:
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of LSRs Received, by Interface, by CLEC                             <ul style="list-style-type: none"> <li>- TAG</li> <li>- EDI</li> <li>- LENS</li> </ul> </li> <li>• Total Number of Errors by Type, by CLEC                             <ul style="list-style-type: none"> <li>- Fatal Rejects</li> <li>- Auto Clarification</li> <li>- CLEC Caused System Fallout</li> </ul> </li> <li>• Total Number of Errors by Error Code</li> <li>• Total Fallout for Manual Processing</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of Errors By Type                             <ul style="list-style-type: none"> <li>- Bellsouth System Error</li> </ul> </li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark <sup>a</sup>
• Residence	• Benchmark: 95%
• Business	• Benchmark: 90%
• UNE	• Benchmark: 85%
• LNP	• Benchmark: 85%

*a. Benchmarks do not apply to the "Percent Achieved Flow Through."*

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark <sup>a</sup>
• Residence	• Benchmark: 95%
• Business	• Benchmark: 90%
• UNE	• Benchmark: 85%
• LNP	• Benchmark: 85%

a. Benchmarks do not apply to the "Percent Achieved Flow Through."



## O-4: Percent Flow-Through Service Requests (Detail)

### Definition

A detailed list, by CLEC, of the percentage of Local Service Requests (LSR) and LNP Local Service Requests (LNP LSRs) submitted electronically via the CLEC mechanized ordering process that flow through and reach a status for a FOC to be issued, without manual or human intervention.

### Exclusions

- Fatal Rejects
- Auto Clarification
- Manual Fallout
- CLEC System Fallout
- Scheduled OSS Maintenance

### Business Rules

The CLEC mechanized ordering process includes all LSRs, including supplements (subsequent versions) which are submitted through one of the three gateway interfaces (TAG, EDI, and LENS), that flow through and reach a status for a FOC to be issued, without manual intervention. These LSRs can be divided into two classes of service: Business and Residence, and three types of service: Resale, and Unbundled Network Elements (UNE). The CLEC mechanized ordering process does not include LSRs, which are submitted manually (for example, fax and courier) or are not designed to flow through (for example, Manual Fallout.)

#### Definitions:

**Fatal Rejects:** Errors that prevent an LSR, submitted electronically by the CLEC, from being processed further. When an LSR is submitted by a CLEC, LEO/LNP Gateway will perform edit checks to ensure the data received is correctly formatted and complete. For example, if the PON field contains an invalid character, LEO/LNP Gateway will reject the LSR and the CLEC will receive a Fatal Reject.

**Auto-Clarification:** Clarifications that occur due to invalid data within the LSR. LESOG/LAUTO will perform data validity checks to ensure the data within the LSR is correct and valid. For example, if the address on the LSR is not valid according to RSAG, or if the LNP is not available for the NPA NXXX requested, the CLEC will receive an Auto-Clarification.

**Manual Fallout:** Planned Fallout that occur by design. Certain LSRs are designed to fallout of the Mechanized Order Process due to their complexity. These LSRs are manually processed by the LCSC. When a CLEC submits an LSR, LESOG/LAUTO will determine if the LSR should be forwarded to LCSC for manual handling. Following are the categories for Manual Fallout:

1. Complex\*
2. Special pricing plans
3. Some Partial migrations
4. New telephone number not yet posted to BOCRIS
5. Pending order review required
6. CSR inaccuracies such as invalid or missing CSR data in CRIS
7. Expedites (requested by the CLEC)
8. Denials-restore and conversion, or disconnect and conversion orders
9. Class of service invalid in certain states with some types of service
10. Low volume such as activity type "T" (move)
11. More than 25 business lines, or more than 15 loops
12. Transfer of calls option for the CLEC end users
13. Directory Listings (Intentions and Captions)

\*See LSR Flow-Through Matrix following O-6 for a list of services, including complex services, and whether LSRs issued for the services are eligible to flow through.

**Total System Fallout:** Errors that require manual review by the LCSC to determine if the error is caused by the CLEC, or is due to BellSouth system functionality. If it is determined the error is caused by the CLEC, the LSR will be sent back to the CLEC for clarification. If it is determined the error is BellSouth caused, the LCSC representative will correct the error, and the LSR will continue to be processed.

**Z Status:** LSRs that receive a supplemental LSR submission prior to final disposition of the original LSR.

### Calculation

$$\text{Percent Flow Through} = a \div [b - (c + d + e + f)] \times 100$$

- a = The total number of LSRs that flow through LESOG/LAUTO and reach a status for a FOC to be issued
- b = the number of LSRs passed from LEO/LNP Gateway to LESOG/LAUTO
- c = the number of LSRs that fall out for manual processing
- d = the number of LSRs that are returned to the CLEC for clarification
- e = the number of LSRs that contain errors made by CLECs
- f = the number of LSRs that receive a Z status.

$$\text{Percent Achieved Flow Through} = a \div [b - (c + d + e)] \times 100$$

- a = the number of LSRs that flow through LESOG/LAUTO and reach a status for a FOC to be issued.
- b = the number of LSRs passed from LEO/LNP Gateway to LESOG/LAUTO
- c = the number of LSRs that are returned to the CLEC for clarification
- d = the number of LSRs that contain errors made by CLECs
- e = the number of LSRs that receive Z status

### Report Structure

Provides the flow through percentage for each CLEC (by alias designation) submitting LSRs through the CLEC mechanized ordering process. The report provides the following:

- CLEC (by alias designation)
- Number of fatal rejects
- Mechanized interface used
- Total mechanized LSRs
- Total manual fallout
- Number of auto clarifications returned to CLEC
- Number of validated LSRs
- Number of BellSouth caused fallout
- Number of CLEC caused fallout
- Number of Service Orders Issued
- Base calculation
- CLEC error excluded calculation

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of LSRs Received, by Interface, by CLEC                             <ul style="list-style-type: none"> <li>- TAG</li> <li>- EDI</li> <li>- LENS</li> </ul> </li> <li>• Total Number of Errors by Type, by CLEC                             <ul style="list-style-type: none"> <li>- Fatal Rejects</li> <li>- Auto Clarification</li> <li>- CLEC Errors</li> </ul> </li> <li>• Total Number of Errors by Error Code</li> <li>• Total Fallout for Manual Processing</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of Errors by Type                             <ul style="list-style-type: none"> <li>- Bellsouth System Error</li> </ul> </li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark <sup>a</sup>
<ul style="list-style-type: none"> <li>• Residence</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark: 95%</li> </ul>

SQM Level of Disaggregation	Retail Analog/Benchmark <sup>a</sup>
• Business	• Benchmark: 90%
• UNE	• Benchmark: 85%
• LNP	• Benchmark: 85%

a. Benchmarks do not apply to the "Percent Achieved Flow Through."

**SEEM Measure**

SEEM Measure	
Yes	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark <sup>a</sup>
• Residence	• Benchmark: 95%
• Business	• Benchmark: 90%
• UNE	• Benchmark: 85%
• LNP	• Benchmark: 85%

a. Benchmarks do not apply to the "Percent Achieved Flow Through."

## O-5: Flow-Through Error Analysis

### Definition

An analysis of each error type (by error code) that was experienced by the LSRs that did not flow through or reached a status for a FOC to be issued.

### Exclusions

Each Error Analysis is error code specific, therefore exclusions are not applicable.

### Business Rules

The CLEC mechanized ordering process includes all LSRs, including supplements (subsequent versions) which are submitted through one of the three gateway interfaces (TAG, EDI, and LENS), that flow through and reach a status for a FOC to be issued. The CLEC mechanized ordering process does not include LSRs which are submitted manually (for example, fax and courier).

### Calculation

Total for each error type.

### Report Structure

Provides an analysis of each error type (by error code). The report is in descending order by count of each error code and provides the following:

- Error Type (by error code)
- Count of each error type
- Percent of each error type
- Cumulative percent
- Error Description
- CLEC Caused Count of each error code
- Percent of aggregate by CLEC caused count
- Percent of CLEC caused count
- BellSouth Caused Count of each error code
- Percent of aggregate by BellSouth caused count
- Percent of BellSouth by BellSouth caused count.

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of LSRs Received</li> <li>• Total Number of Errors by Type (by error code)                             <ul style="list-style-type: none"> <li>- CLEC Caused Error</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of Errors by Type (by error code)                             <ul style="list-style-type: none"> <li>- BellSouth System Error</li> </ul> </li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## O-6: CLEC LSR Information

### Definition

A list with the flow through activity of LSRs by CC, PON and Ver, issued by each CLEC during the report period.

### Exclusions

- Fatal Rejects
- LSRs submitted manually

### Business Rules

The CLEC mechanized ordering process includes all LSRs, including supplements (subsequent versions) which are submitted through one of the three gateway interfaces (TAG, EDI, and LENS), that flow through and reach a status for a FOC to be issued. The CLEC mechanized ordering process does not include LSRs which are submitted manually (for example, fax and courier).

### Calculation

NA

### Report Structure

Provides a list with the flow through activity of LSRs by CC, PON and Ver, issued by each CLEC during the report period with an explanation of the of the columns and content. This report is available on a CLEC specific basis. The report provides the following for each LSR.

- CC
- PON
- Ver
- Timestamp
- Type
- Err #
- Note or Error Description

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record of LSRs Received by CC, PON and Ver</li> <li>• Record of Timestamp, Type, Err # and Note or Error Description for each LSR by CC, PON and Ver</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

O-6: CLEC LSR Information

LSR Flow-Through Matrix

PRODUCT	F/T <sup>3</sup>	COM PLEX SERVICE	COM PLEX ORDER	PLANNED FALLOUT FOR MANUAL HANDLING <sup>1</sup>	EDI	TAG <sup>2</sup>	LENS <sup>4</sup>	COMMENTS
2 wire analog DID trunk port	No	UNE	Yes	NA	N	N	N	
2 wire analog port	Yes	UNE	No	No	Y	Y	N	
2 wire ISDN digital line side port	No	UNE	Yes	NA	N	N	N	
2 wire ISDN digital loop	Yes	UNE	Yes	No	Y	Y	N	
3 Way Calling	Yes	No	No	No	Y	Y	Y	
4 wire analog voice grade loop	Yes	UNE	Yes	No	Y	Y	N	
4 wire DS0 & PRI digital loop	No	UNE	Yes	NA	N	N	N	
4 wire DS1 & PRI digital loop	No	UNE	Yes	NA	N	N	N	
4 wire ISDN DSI digital trunk ports	No	UNE	Yes	NA	N	N	N	
Accupulse	No	Yes	Yes	NA	N	N	N	
ADSL	Yes	UNE	No	No	Y	Y	N	
Area Plus	Yes	No	No	No	Y	Y	Y	
Basic Rate ISDN	No	Yes	Yes	Yes	Y	Y	N	
Call Block	Yes	No	No	No	Y	Y	Y	
Call Forwarding-Variable	Yes	No	No	No	Y	Y	Y	
Call Return	Yes	No	No	No	Y	Y	Y	
Call Selector	Yes	No	No	No	Y	Y	Y	
Call Tracing	Yes	No	No	No	Y	Y	Y	
Call Waiting	Yes	No	No	No	Y	Y	Y	
Call Waiting Deluxe	Yes	No	No	No	Y	Y	Y	
Caller ID	Yes	No	No	No	Y	Y	Y	
CENTREX	No	Yes	Yes	NA	N	N	N	
DID WITH PBX ACT W	No	Yes	Yes	Yes	Y	N	Y	
DID ACT W	No	Yes	Yes	Yes	Y	N	Y	
Digital Data Transport	No	UNE	Yes	NA	N	N	N	
Directory Listing Intentions	No	No	No	Yes	Y	Y	Y	
Directory Listings Captions	No	No	Yes	Yes	Y	Y	Y	
Directory Listings (simple)	Yes	No	No	No	Y	Y	Y	
DS3	No	UNE	Yes	NA	N	N	N	
DS1 Loop	Yes	UNE	Yes	No	Y	Y	N	

LSR Flow-Through Matrix



PRODUCT	FT <sup>3</sup>	COMPLEX SERVICE	COMPLEX ORDER	PLANNED FALLOUT FOR MANUAL HANDLING <sup>1</sup>	EDI	TAG <sup>2</sup>	LENS <sup>4</sup>	COMMENTS
DSO Loop	Yes	UNE	Yes	No	Y	Y	N	
Enhanced Caller ID	Yes	No	No	No	Y	Y	Y	
ESSX	No	Yes	Yes	NA	N	N	N	
Flat Rate/Business	Yes	No	No	No	Y	Y	Y	
Flat Rate/Residence	Yes	No	No	No	Y	Y	Y	
FLEXSERV	No	Yes	Yes	NA	N	N	N	
Frame Relay	No	Yes	Yes	NA	N	N	N	
FX	No	Yes	Yes	NA	N	N	N	
Ga. Community Calling	Yes	No	No	No	Y	Y	Y	
HDSL	Yes	UNE	No	No	Y	Y	N	
Hunting MLH	No	C/S <sup>4</sup>	C/S	Yes	Y	Y	N	
Hunting Series Completion	Yes	C/S	C/S	No	Y	Y	Y	
INP to LNP Conversions	No	UNE	Yes	Yes	Y	Y	N	
LightGate	No	Yes	Yes	NA	N	N	N	
Line Sharing	Yes	UNE	No	No	Y	Y	N	
Local Number Portability	Yes	UNE	Yes	No	Y	Y	N	
LNP with Complex Listing	No	UNE	Yes	Yes	Y	Y	N	
LNP with Partial Migration	No	UNE	Yes	Yes	Y	Y	N	
LNP with Complex Services	No	UNE	Yes	Yes	Y	Y	N	
Loop+INP	Yes	UNE	No	No	Y	Y	N	
Loop+LNP	Yes	UNE	No	No	Y	Y	N	
Measured Rate/Bus.	Yes	No	No	No	Y	Y	Y	
Measured Rate/Res.	Yes	No	No	No	Y	Y	Y	
Megalink	No	Yes	Yes	NA	N	N	N	
Megalink-T1	No	Yes	Yes	NA	N	N	N	
Memory Call	Yes	No	No	No	Y	Y	Y	
Memory Call Ans. Svc.	Yes	No	No	No	Y	Y	Y	
Multiserv	No	Yes	Yes	NA	N	N	N	
Native Mode LAN Interconnection (NMLI)	No	Yes	Yes	NA	N	N	N	
Off-Prem Stations	No	Yes	Yes	NA	N	N	N	
Optional Calling Plan	Yes	No	No	No	Y	Y	Y	

LSR Flow-Through Matrix

PRODUCT	FT <sup>3</sup>	COMPLEX SERVICE	COMPLEX ORDER	PLANNED FALLOUT FOR MANUAL HANDLING <sup>1</sup>	EDI	TAG <sup>2</sup>	LENS <sup>4</sup>	COMMENTS
Package/Complete Choice and area plus	Yes	No	No	No	Y	Y	Y	
Pathlink Primary Rate ISDN	No	Yes	Yes	NA	N	N	N	
Pay Phone Provider	No	No	No	NA	N	N	N	
PBX Standalone ACT A,C, D	No	Yes	Yes	Yes	Y	Y	N	
PBX Trunks	No	Yes	Yes	Yes	Y	Y	N	
Port/Loop Combo	Yes	UNE	No	No	Y	Y	Y	
Port/Loop PBX	No	No	No	Yes	Y	Y	N	
Preferred Call Forward	Yes	No	No	No	Y	Y	Y	
RCF Basic	Yes	No	No	No	Y	Y	Y	
Remote Access to CF	Yes	No	No	No	Y	Y	Y	
Repeat Dialing	Yes	No	No	No	Y	Y	Y	
Ringmaster	Yes	No	No	No	Y	Y	Y	
Smartpath	No	Yes	Yes	NA	N	N	N	
SmartRING	No	Yes	Yes	NA	N	N	N	
Speed Calling	Yes	No	No	No	Y	Y	Y	
Synchronet	No	Yes	Yes	Yes	Y	Y	N	
Tie Lines	No	Yes	Yes	NA	N	N	N	
Touchtone	Yes	No	No	No	Y	Y	Y	
Unbundled Loop-Analog 2W, SL1, SL2	Yes	UNE	No	No	Y	Y	Y	
WATS	No	Yes	Yes	NA	N	N	N	
XDSL	Yes	UNE	No	No	Y	Y	N	
XDSL Extended LOOP	No	UNE	Yes	NA	N	N	N	
Collect Call Block	Yes	No	No	No	Y	Y	Y	
900 Call Block	Yes	No	No	No	Y	Y	Y	
3rd Party Call Block	Yes	No	No	No	Y	Y	Y	
Three Way Call Block	Yes	No	No	No	Y	Y	Y	
PIC/LPIC Change	Yes	No	No	No	Y	Y	Y	
PIC/LPIC Freeze	Yes	No	No	No	Y	Y	Y	

Note<sup>1</sup>: Planned Falloout for Manual Handling denotes those services that are electronically submitted and are not intended to flow through due to the complexity of the service.

Note<sup>2</sup>: The TAG column includes those LSRs submitted via Robo TAG

**Note<sup>3</sup>:** For all services that indicate 'No' for flow-through, the following reasons, in addition to errors or complex services, also prompt manual handling: Expedites from CLECs, special pricing plans, denials restore and conversion or disconnect and conversion both required, partial migrations (although conversions-as-is flow through for issue 9), class of service invalid in certain states with some TOS e.g. government, or cannot be changed when changing main TN on C activity, low volume e.g. activity type T=move, pending order review required, more than 25 business lines, CSR inaccuracies such as invalid or missing CSR data in CRIS, Directory listings -- Indentions, Directory listings -- Captions, transfer of calls option for CLEC end user -- new TN not yet posted to BOCRIS. Many are unique to the CLEC environment.

**Note<sup>4</sup>:** Services with C/S in the Complex Service and/or the Complex Order columns can be either complex or simple.

**Note<sup>5</sup>:** EELs are manually ordered.

## O-7: Percent Rejected Service Requests

### Definition

Percent Rejected Service Request is the percent of total Local Service Requests (LSRs) received which are rejected due to error or omission. An LSR is considered valid when it is submitted by the CLEC and passes edit checks to insure the data received is correctly formatted and complete.

### Exclusions

- Service Requests canceled by the CLEC prior to being rejected/clarified.
- Scheduled OSS Maintenance

### Business Rules

**Fully Mechanized:** An LSR is considered “rejected” when it is submitted electronically but does not pass LEO edit checks in the ordering systems (EDI, LENS, TAG, LEO, LESOG) and is returned to the CLEC without manual intervention. There are two types of “Rejects” in the Mechanized category:

A **Fatal Reject** occurs when a CLEC attempts to electronically submit an LSR but required fields are either not populated or incorrectly populated and the request is returned to the CLEC before it is considered a valid LSR.

*Fatal rejects are reported in a separate column, and for informational purposes ONLY. Fatal rejects are excluded from the calculation of the percent of total LSRs rejected or the total number of rejected LSRs.*

An **Auto Clarification** occurs when a valid LSR is electronically submitted but rejected from LESOG because it does not pass further edit checks for order accuracy.

**Partially Mechanized:** A valid LSR, which is electronically submitted (via EDI, LENS, TAG) but cannot be processed electronically and “falls out” for manual handling. It is then put into “clarification” and sent back (rejected) to the CLEC.

**Total Mechanized:** Combination of Fully Mechanized and Partially Mechanized LSRs electronically submitted by the CLEC.

**Non-Mechanized:** LSRs which are faxed or mailed to the LCSC for processing and “clarified” (rejected) back to the CLEC by the BellSouth service representative.

**Interconnection Trunks:** Interconnection Trunks are ordered on Access Service Requests (ASRs). ASRs are submitted to and processed by the Interconnection Purchasing Center (IPC). Trunk data is reported separately.

### Calculation

**Percent Rejected Service Requests =  $(a \div b) \times 100$**

- a = Total Number of Rejected Service Requests in the Reporting Period
- b = Total Number of Service Requests Received in the Reporting Period

### Report Structure

- Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized
- CLEC Specific
- CLEC Aggregate
- Geographic Scope
  - State
  - Region
- Product Specific Percent Rejected
- Total Percent Rejected

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of LSRs</li> <li>• Total Number of Rejects</li> <li>• State and Region</li> <li>• Total Number of ASRs (Trunks)</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
Mechanized, Partially Mechanized and Non-Mechanized <ul style="list-style-type: none"> <li>• Resale - Residence</li> <li>• Resale - Business</li> <li>• Resale - Design (Special)</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP Standalone</li> <li>• INP Standalone</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop Non-Design</li> <li>• 2W Analog Loop w/INP Design</li> <li>• 2W Analog Loop w/INP Non-Design</li> <li>• 2W Analog Loop w/LNP Design</li> <li>• 2W Analog Loop w/LNP Non-Design</li> <li>• UNE Loop + Port Combinations</li> <li>• Switch Ports</li> <li>• UNE Combination Other</li> <li>• UNE xDSL (ADSL, HDSL, UCL)</li> <li>• Line Sharing</li> <li>• UNE ISDN Loop</li> <li>• UNE Other Design</li> <li>• UNE Other Non-Design</li> <li>• Local Interoffice Transport</li> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

O-7: Percent Rejected Service Requests

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SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

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O-7: Percent Rejected Service Requests

## O-8: Reject Interval

### Definition

Reject Interval is the average reject time from receipt of an LSR to the distribution of a Reject. An LSR is considered valid when it is submitted by the CLEC and passes edit checks to insure the data received is correctly formatted and complete.

### Exclusions

- Service Requests canceled by CLEC prior to being rejected/clarified.
- Designated Holidays are excluded from the interval calculation.
- LSRs which are identified and classified as "Projects"
- The following hours for Partially mechanized and Non-mechanized LSRs are excluded from the interval calculation:

Residence Resale Group – Monday through Saturday 7:00PM until 7:00AM  
From 7:00 PM Saturday until 7:00 AM Monday

Business Resale, Complex, UNE Groups – Monday through Friday 6:00PM until 8:00AM  
From 6:00 PM Friday until 8:00 AM Monday.

The hours excluded will be altered to reflect changes in the Center operating hours. The LCSC will accept faxed LSRs only during posted hours of operation.

The interval will be the amount of time accrued from receipt of the LSR until normal closing of the center if an LSR is worked using overtime hours.

In the case of a Partially Mechanized LSR received and worked after normal business hours, the interval will be set at one (1) minute.

- Scheduled OSS Maintenance

### Business Rules

**Fully Mechanized:** The elapsed time from receipt of a valid electronically submitted LSR (date and time stamp in EDI, LENS or TAG) until the LSR is rejected (date and time stamp or reject in EDI, TAG or LENS). Auto Clarifications are considered in the Fully Mechanized category.

**Partially Mechanized:** The elapsed time from receipt of a valid electronically submitted LSR (date and time stamp in EDI, LENS or TAG) until it falls out for manual handling. The stop time on partially mechanized LSRs is when the LCSC Service Representative clarifies the LSR back to the CLEC via LENS, EDI, or TAG.

**Total Mechanized:** Combination of Fully Mechanized and Partially Mechanized LSRs which are electronically submitted by the CLEC.

**Non-Mechanized:** The elapsed time from receipt of a valid LSR (date and time stamp of FAX or date and time mailed LSR is received in the LCSC) until notice of the reject (clarification) is returned to the CLEC via LON.

**Interconnection Trunks:** Interconnection Trunks are ordered on Access Service Requests (ASRs). ASRs are submitted to and processed by the Local Interconnection Service Center (LISC). Trunk data is reported separately. All interconnection trunks are counted in the non-mechanized category.

### Calculation

**Reject Interval = (a - b)**

- a = Date and Time of Service Request Rejection
- b = Date and Time of Service Request Receipt

**Average Reject Interval = (c ÷ d)**

- c = Sum of all Reject Intervals
- d = Number of Service Requests Rejected in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate

- Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized
- Geographic Scope
  - State
  - Region
- Mechanized:
  - 0 - ≤ 4 minutes
  - >4 - ≤ 8 minutes
  - >8 - ≤ 12 minutes
  - >12 - ≤ 60 minutes
  - 0 - ≤ 1 hour
  - >1 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 12 hours
  - >12 - ≤ 16 hours
  - >16 - ≤ 20 hours
  - >20 - ≤ 24 hours
  - >24 hours
- Partially Mechanized:
  - 0 - ≤ 1 hour
  - >1 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 10 hours
  - 0 - ≤ 10 hours
  - >10 - ≤ 18 hours
  - 0 - ≤ 18 hours
  - >18 - ≤ 24 hours
  - >24 hours
- Non-mechanized:
  - 0 - ≤ 1 hour
  - >1 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 12 hours
  - >12 - ≤ 16 hours
  - >16 - ≤ 20 hours
  - >20 - ≤ 24 hours
  - 0 - ≤ 24 hours
  - > 24 hours
- Trunks:
  - ≤ 4 days
  - >4 - ≤ 8 days
  - >8 - ≤ 12 days
  - >12 - ≤ 14 days
  - >14 - ≤ 20 days
  - >20 days

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
Report Month <ul style="list-style-type: none"> <li>• Reject Interval</li> <li>• Total Number of LSRs</li> <li>• Total Number of Rejects</li> <li>• State and Region</li> <li>• Total Number of ASRs (Trunks)</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>



**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale – Residence</li> <li>• Resale – Business</li> <li>• Resale – Design (Special)</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP Standalone</li> <li>• INP Standalone</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop Non-Design</li> <li>• 2W Analog Loop w/INP Design</li> <li>• 2W Analog Loop w/INP Non-Design</li> <li>• 2W Analog Loop w/LNP Design</li> <li>• 2W Analog Loop w/LNP Non-Design</li> <li>• UNE Loop + Port Combinations</li> <li>• Switch Ports</li> <li>• UNE Combination Other</li> <li>• UNE xDSL (ADSL, HDSL, UCL)</li> <li>• Line Sharing</li> <li>• UNE ISDN Loops</li> <li>• UNE Other Non-Design</li> <li>• Local Interoffice Transport</li> <li>• UNE Other Design</li> </ul>	<ul style="list-style-type: none"> <li>• Mechanized:                             <ul style="list-style-type: none"> <li>- 97% within 1 Hour</li> </ul> </li> <li>• Partially Mechanized:                             <ul style="list-style-type: none"> <li>- 85% within 24 hours</li> <li>- 85% within 18 Hours (05/01/01)</li> <li>- 85% within 10 Hours (08/01/01)</li> </ul> </li> <li>• Non-Mechanized: - 85% within 24 hours</li> </ul>
<ul style="list-style-type: none"> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Trunks: - 85% within 4 Days</li> </ul>

O-8: Reject Interval

**SEEM Measure**

SEEM Measure	
Yes	Tier I X
	Tier II X
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Fully Mechanized</li> </ul>	<ul style="list-style-type: none"> <li>• 97% ≤ 1 hour</li> </ul>
<ul style="list-style-type: none"> <li>• Partially Mechanized</li> </ul>	<ul style="list-style-type: none"> <li>• 85% within 24 hours</li> <li>• 85% within 18 hours (05/01/01)</li> <li>• 85% within 10 hours (08/01/01)</li> </ul>
<ul style="list-style-type: none"> <li>• Non-Mechanized</li> </ul>	<ul style="list-style-type: none"> <li>• 85% within 24 hours</li> </ul>

## O-9: Firm Order Confirmation Timeliness

### Definition

Interval for Return of a Firm Order Confirmation (FOC Interval) is the average response time from receipt of valid LSR to distribution of a Firm Order Confirmation.

### Exclusions

- Rejected LSRs
- Designated Holidays are excluded from the interval calculation.
- LSRs which are identified and classified as "Projects"
- The following hours for Partially Mechanized and Non-mechanized LSRs are excluded from the interval calculation:

Residence Resale Group – Monday through Saturday 7:00PM until 7:00AM

From 7:00 PM Saturday until 7:00 AM Monday.

Business Resale, Complex, UNE Groups – Monday through Friday 6:00PM until 8:00AM

From 6:00 PM Friday until 8:00 AM Monday.

The hours excluded will be altered to reflect changes in the Center operating hours. The LCSC will accept faxed LSRs only during posted hours of operation.

The interval will be the amount of time accrued from receipt of the LSR until normal closing of the center if an LSR is worked using overtime hours.

In the case of a Partially Mechanized LSR received and worked after normal business hours, the interval will be set at one (1) minute.

- Scheduled OSS Maintenance

### Business Rules

- **Fully Mechanized:** The elapsed time from receipt of a valid electronically submitted LSR (date and time stamp in EDI, LENS or TAG) until the LSR is processed, appropriate service orders are generated and a Firm Order Confirmation is returned to the CLEC via EDI, LENS or TAG.
- **Partially Mechanized:** The elapsed time from receipt of a valid electronically submitted LSR (date and time stamp in EDI, LENS, or TAG) which falls out for manual handling until appropriate service orders are issued by a BellSouth service representative via Direct Order Entry (DOE) or Service Order Negotiation Generation System (SONGS) to SOCS and a Firm Order Confirmation is returned to the CLEC via EDI, LENS, or TAG.
- **Total Mechanized:** Combination of Fully Mechanized and Partially Mechanized LSRs which are electronically submitted by the CLEC.
- **Non-Mechanized:** The elapsed time from receipt of a valid paper LSR (date and time stamp of FAX or date and time paper LSRs received in LCSC) until appropriate service orders are issued by a BellSouth service representative via Direct Order Entry (DOE) or Service Order Negotiation Generation System (SONGS) to SOCS and a Firm Order Confirmation is sent to the CLEC via LON.
- **Interconnection Trunks:** Interconnection Trunks are ordered on Access Service Requests (ASRs). ASRs are submitted to and processed by the Local Interconnection Service Center (LISC). Trunk data is reported separately.

### Calculation

**Firm Order Confirmation Interval** = (a - b)

- a = Date & Time of Firm Order Confirmation
- b = Date & Time of Service Request Receipt)

**Average FOC Interval** = (c ÷ d)

- c = Sum of all FOC Intervals
- d = Total Number of Service Requests Confirmed in Reporting Period

**FOC Interval Distribution** (for each interval) = (e ÷ f) X 100

- c = Service Requests Confirmed in interval
- f = Total Service Requests Confirmed in the Reporting Period

**Report Structure**

- Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized
  - CLEC Specific
  - CLEC Aggregate
- Geographic Scope
  - State
  - Region
- Fully Mechanized:
  - 0 - ≤ 15 minutes
  - >15 - ≤ 30 minutes
  - >30 - ≤ 45 minutes
  - >45 - ≤ 60 minutes
  - >60 - ≤ 90 minutes
  - >90 - ≤ 120 minutes
  - >120 - ≤ 180 minutes
  - 0 - ≤ 3 hours
  - >3 - ≤ 6 hours
  - >6 - ≤ 12 hours
  - >12 - ≤ 24 hours
  - >24 - ≤ 48 hours
  - >48 hours
- Partially Mechanized:
  - 0 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 10 hours
  - 0 - ≤ 10 hours
  - >10 - ≤ 18 hours
  - 0 - ≤ 18 hours
  - >18 - ≤ 24 hours
  - 0 - ≤ 24 hours
  - >24 - ≤ 48 hours
  - >48 hours
- Non-Mechanized
  - 0 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 12 hours
  - >12 - ≤ 16 hours
  - >16 - ≤ 20 hours
  - >20 - ≤ 24 hours
  - >24 - ≤ 36 hours
  - 0 - ≤ 36 hours
  - >36 - ≤ 48 hours
  - >48 hours
- Trunks:
  - 0 - ≤ 5 days
  - >5 - ≤ 10 days
  - 0 - ≤ 10 days
  - >10 - ≤ 15 days
  - >15 - ≤ 20 days
  - >20 days

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Interval for FOC</li> <li>• Total Number of LSRs</li> <li>• State and Region</li> <li>• Total Number of ASRs (Trunks)</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale – Residence</li> <li>• Resale – Business</li> <li>• Resale – Design (Special)</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP Standalone</li> <li>• INP Standalone</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop Non-Design</li> <li>• 2W Analog Loop w/INP Design</li> <li>• 2W Analog Loop w/INP Non-Design</li> <li>• 2W Analog Loop w/LNP Design</li> <li>• 2W Analog Loop w/LNP Non-Design</li> <li>• UNE Loop + Port Combinations</li> <li>• Switch Ports</li> <li>• UNE Combination Other</li> <li>• UNE xDSL (ADSL, HDSL, UCL)</li> <li>• Line Sharing</li> <li>• UNE ISDN Loops</li> <li>• UNE Other Design</li> <li>• UNE Other Non-Design</li> <li>• Local Interoffice Transport</li> </ul>	<ul style="list-style-type: none"> <li>• Mechanized: - 95% within 3 Hours</li> <li>• Partially Mechanized:                             <ul style="list-style-type: none"> <li>- 85% within 24 hours</li> <li>- 85% within 18 Hours (05/01/01)</li> <li>- 85% within 10 Hours (08/01/01)</li> </ul> </li> <li>• Non-Mechanized: - 85% within 36 hours</li> </ul>
<ul style="list-style-type: none"> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Trunks: - 95% within 10 days</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Fully Mechanized</li> </ul>	<ul style="list-style-type: none"> <li>• 95% within 3 hours</li> </ul>
<ul style="list-style-type: none"> <li>• Partially Mechanized</li> </ul>	<ul style="list-style-type: none"> <li>• 85% within 24 hours</li> <li>• 85% within 18 Hours (05/01/01)</li> <li>• 85% within 10 Hours (08/01/01)</li> </ul>

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SEEM Disaggregation	SEEM Analog/Benchmark
• Non-Mechanized	• 85% within 36 hours
• IC Trunks	• 95% within 10 days

## O-10: Service Inquiry with LSR Firm Order Confirmation (FOC) Response Time Manual<sup>1</sup>

### Definition

This report measures the interval and the percent within the interval from the submission of a Service Inquiry (SI) with Firm Order LSR to the distribution of a Firm Order Confirmation (FOC).

### Exclusions

- Designated Holidays are excluded from the interval calculation.
- Weekend hours from 5:00PM Friday until 8:00AM Monday are excluded from the interval calculation of the Service Inquiry.
- Canceled Requests
- Electronically Submitted Requests
- Scheduled OSS Maintenance

### Business Rules

This measurement combines four intervals:

1. From receipt of Service Inquiry with LSR to hand off to the Service Advocacy Center (SAC) for Loop 'Look-up'.
2. From SAC start date to SAC complete date.
3. From SAC complete date to the Complex Resale Support Group (CRSG) complete date with hand off to LCSC.
4. From receipt of SI/LSR in the LCSC to Firm Order Confirmation.

### Calculation

**FOC Timeliness Interval** = (a - b)

- a = Date and Time Firm Order Confirmation (FOC) for SI with LSR returned to CLEC
- b = Date and Time SI with LSR received

**Average Interval** = (c ÷ d)

- c = Sum of all FOC Timeliness Intervals
- d = Total number of SIs with LSRs received in the reporting period

**Percent Within Interval** = (e ÷ f) X 100

- e = Total number of Service Inquiries with LSRs received by the CRSG to distribution of FOC by the Local Carrier Service Center (LCSC)
- f = Total number of Service Inquiries with LSRs received in the reporting period

### Report Structure

- CLEC Aggregate
- CLEC Specific
- Geographic Scope
  - State
  - Region
- Intervals
  - 0 – ≤ 3 days
  - >3 – ≤ 5 days
  - 0 – ≤ 5 days
  - >5 – ≤ 7 days
  - >7 – ≤ 10 days
  - >10 – ≤ 15 days
  - >15 days
- Average Interval measured in days

1. See O-9 for FOC Timeliness

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of Requests</li> <li>• SI Intervals</li> <li>• State and Region</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• xDSL (includes UNE unbundled ADSL, HDSL and UNE Unbundled Copper Loops)</li> <li>• Unbundled Interoffice Transport</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Returned within 5 Business days</li> </ul>

**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

## O-11: Firm Order Confirmation and Reject Response Completeness

### Definition

A response is expected from BellSouth for every Local Service Request transaction (version). More than one response or differing responses per transaction is not expected. Firm Order Confirmation and Reject Response Completeness is the corresponding number of Local Service Requests received to the combination of Firm Order Confirmation and Reject Responses.

### Exclusions

- Service Requests canceled by the CLEC prior to FOC or Rejected/Clarified
- Non-Mechanized LSRs
- Scheduled OSS Maintenance

### Business Rules

**Mechanized** – The number of FOCs or Auto Clarifications sent to the CLEC from LENS, EDI, TAG in response to electronically submitted LSRs (date and time stamp in LENS, EDI, TAG).

**Partially Mechanized** – The number of FOCs or Rejects sent to the CLEC from LENS, EDI, TAG in response to electronically submitted LSRs (date and time stamp in LENS, EDI, TAG), which fall out for manual handling by the LCSC personnel.

**Total Mechanized** – The number of the combination of Fully Mechanized and Partially Mechanized LSRs

**Non-Mechanized** – The number of FOCs or Rejects sent to the CLEC via FAX Server in response to manually submitted LSRs (date and time stamp in FAX Server).

**Note:** Manual (Non-Mechanized) LSRs have no version control by the very nature of the manual process, therefore, non-mechanized LSRs are not captured by this report.

#### For CLEC Results:

Firm Order Confirmation and Reject Response Completeness is determined in two dimensions:

Percent responses is determined by computing the number of Firm Order Confirmations and Rejects transmitted by BellSouth and dividing by the number of Local Service Requests (all versions) received in the reporting period.

Percent of multiple responses is determined by computing the number of Local Service Request unique versions receiving more than one Firm Order Confirmation, Reject or the combination of the two and dividing by the number of Local Service Requests (all versions) received in the reporting period.

### Calculation

#### Single FOC/Reject Response Expected

**Firm Order Confirmation / Reject Response Completeness** =  $(a \div b) \times 100$

- a = Total Number of Service Requests for which a Firm Order Confirmation or Reject is Sent
- b = Total Number of Service Requests Received in the Report Period

#### Multiple or Differing FOC / Reject Responses Not Expected

**Response Completeness** =  $[(a + b) \div c] \times 100$

- a = Total Number of Firm Order Confirmations Per LSR Version
- b = Total Number of Reject Responses Per LSR Version
- c = Total Number of Service Requests (All Versions) Received in the Reporting Period

### Report Structure

Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized

- State and Region
- CLEC Specific
- CLEC Aggregate
- BellSouth Specific



**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
Report Month • Reject Interval • Total Number of LSRs • Total Number of Rejects	• Not Applicable

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale Residence</li> <li>• Resale Business</li> <li>• Resale Design</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP Standalone</li> <li>• INP Standalone</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop Non – Design</li> <li>• 2W Analog Loop w/ INP Design</li> <li>• 2W Analog Loop w/ INP Non – Design</li> <li>• 2W Analog Loop w/ LNP Design</li> <li>• 2W Analog Loop w/ LNP Non – Design</li> <li>• UNE Loop and Port Combinations</li> <li>• Switch Ports</li> <li>• UNE Combination Other</li> <li>• UNE xDSL (ADSL, HDSL, UCL)</li> <li>• Line Sharing</li> <li>• UNE ISDN Loops</li> <li>• UNE Other Design</li> <li>• UNE Other Non - Design</li> <li>• Local Interoffice Transport</li> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Returned</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Fully Mechanized</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Returned</li> </ul>

## O-12: Speed of Answer in Ordering Center

### Definition

Measures the average time a customer is in queue.

### Exclusions

None

### Business Rules

The clock starts when the appropriate option is selected (i.e., 1 for Resale Consumer, 2 for Resale Multiline, and 3 for UNE-LNP, etc.) and the call enters the queue for that particular group in the LCSC. The clock stops when a BellSouth service representative in the LCSC answers the call. The speed of answer is determined by measuring and accumulating the elapsed time from the entry of a CLEC call into the BellSouth automatic call distributor (ACD) until a service representative in BellSouth's Local Carrier Service Center (LCSC) answers the CLEC call.

### Calculation

Speed of Answer in Ordering Center =  $(a \div b)$

- a = Total seconds in queue
- b = Total number of calls answered in the Reporting Period

### Report Structure

Aggregate

- CLEC – Local Carrier Service Center
- BellSouth
  - Business Service Center
  - Residence Service Center

**Note:** Combination of Residence Service Center and Business Service Center data.

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Mechanized tracking through LCSC Automatic Call Distributor</li> </ul>	<ul style="list-style-type: none"> <li>• Mechanized tracking through BellSouth Retail center support system.</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
Aggregate <ul style="list-style-type: none"> <li>• CLEC – Local Carrier Service Center</li> <li>• BellSouth                             <ul style="list-style-type: none"> <li>- Business Service Center</li> <li>- Residence Service Center</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Parity with Retail</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

O-12: Speed of Answer In Ordering Center

## O-13: LNP-Percent Rejected Service Requests

### Definition

Percent Rejected Service Request is the percent of total Local Service Requests (LSRs) which are rejected due to error or omission. An LSR is considered valid when it is electronically submitted by the CLEC and passes LNP Gateway edit checks to insure the data received is correctly formatted and complete, i.e., fatal rejects are never accepted and, therefore, are not included.

### Exclusions

- Service Requests canceled by the CLEC
- Scheduled OSS Maintenance

### Business Rules

An LSR is considered "rejected" when it is submitted electronically but does not pass edit checks in the ordering systems (EDI, TAG, LNP Gateway, LAUTO) and is returned to the CLEC without manual intervention.

**Fully Mechanized:** There are two types of "Rejects" in the Fully Mechanized category:

A **Fatal Reject** occurs when a CLEC attempts to electronically submit an LSR (via EDI or TAG) but required fields are not populated correctly and the request is returned to the CLEC.

*Fatal rejects are reported in a separate column, and for informational purposes ONLY. They are not considered in the calculation of the percent of total LSRs rejected or the total number of rejected LSRs.*

An **Auto Clarification** is a valid LSR which is electronically submitted (via EDI or TAG), but is rejected from LAUTO because it does not pass further edit checks for order accuracy. Auto Clarifications are returned without manual intervention.

**Partially Mechanized:** A valid LSR which is electronically submitted (via EDI or TAG), but cannot be processed electronically due to a CLEC error and "falls out" for manual handling. It is then put into "clarification", and sent back (rejected) to the CLEC.

**Total Mechanized:** Combination of Fully Mechanized and Partially Mechanized rejects.

**Non-Mechanized:** A valid LSR which is faxed or mailed to the BellSouth LCSC.

### Calculation

$$\text{LNP-Percent Rejected Service Requests} = (a + b) \times 100$$

- a = Number of Service Requests Rejected in the Reporting Period
- b = Number of Service Requests Received in the Reporting Period

### Report Structure

- Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized
- CLEC Specific
- CLEC Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
• Not Applicable	• Not Applicable

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• LNP</li> <li>• UNE Loop w/LNP</li> </ul>	• Diagnostic

**SEEM Measure**

<b>SEEM Measure</b>	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

## O-14: LNP-Reject Interval Distribution & Average Reject Interval

### Definition

Reject Interval is the average reject time from receipt of an LSR to the distribution of a Reject. An LSR is considered valid when it is electronically submitted by the CLEC and passes LNP Gateway edit checks to insure the data received is correctly formatted and complete.

### Exclusions

- Service Requests canceled by the CLEC
- Designated Holidays are excluded from the interval calculation.
- LSRs which are identified and classified as "Projects".
- The following hours for Partially mechanized and Non-mechanized LSRs are excluded from the interval calculation:

Residence Resale Group – Monday through Saturday 7:00PM until 7:00AM  
From 7:00 PM Saturday until 7:00 AM Monday

Business Resale, Complex, UNE Groups – Monday through Friday 6:00PM until 8:00AM  
From 6:00 PM Friday until 8:00 AM Monday.

The hours excluded will be altered to reflect changes in the Center operating hours. The LCSC will accept faxed LSRs only during posted hours of operation.

The interval will be the amount of time accrued from receipt of the LSR until normal closing of the center if an LSR is worked using overtime hours.

In the case of a Partially Mechanized LSR received and worked after normal business hours, the interval will be set at one (1) minute.

- Scheduled OSS Maintenance

### Business Rules

The Reject interval is determined for each rejected LSR processed during the reporting period. The Reject interval is the elapsed time from when BellSouth receives LSR until that LSR is rejected back to the CLEC. Elapsed time for each LSR is accumulated for each reporting dimension. The accumulated time for each reporting dimension is then divided by the associated total number of rejected LSRs to produce the reject interval distribution.

An LSR is considered "rejected" when it is submitted electronically but does not pass edit checks in the ordering systems (EDI, TAG, LNP Gateway, LAUTO) and is returned to the CLEC without manual intervention.

**Fully Mechanized:** There are two types of "Rejects" in the Fully Mechanized category:

A **Fatal Reject** occurs when a CLEC attempts to electronically submit an LSR but required fields are not populated correctly and the request is returned to the CLEC.

An **Auto Clarification** is a valid LSR which is electronically submitted (via EDI or TAG), but is rejected from LAUTO because it does not pass further edit checks for order accuracy. Auto Clarifications are returned without manual intervention.

**Partially Mechanized:** A valid LSR which electronically submitted (via EDI or TAG), but cannot be processed electronically due to a CLEC error and "falls out" for manual handling. It is then put into "clarification", and sent back to the CLEC.

**Total Mechanized:** Combination of Fully Mechanized and Partially Mechanized rejects.

**Non-Mechanized:** A valid LSR which is faxed or mailed to the BellSouth LCSC.

### Calculation

**Reject Interval** = (a - b)

- a = Date & Time of Service Request Rejection
- b = Date & Time of Service Request Receipt

**Average Reject Interval** = (c ÷ d)

- c = Sum of all Reject Intervals
- d = Total Number of Service Requests Rejected in Reporting Period

**Reject Interval Distribution = (e + f) X 100**

- e = Service Requests Rejected in reported interval
- f = Total Number of Service Requests Rejected in Reporting Period

### Report Structure

Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized

- CLEC Specific
- CLEC Aggregate
- State, Region
- Fully Mechanized:
  - 0 - ≤ 4 minutes
  - >4 - ≤ 8 minutes
  - >8 - ≤ 12 minutes
  - >12 - ≤ 60 minutes
  - 0 - ≤ 1 hour
  - >1 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 12 hours
  - >12 - ≤ 16 hours
  - >16 - ≤ 20 hours
  - >20 - ≤ 24 hours
  - > 24 hours
- Partially Mechanized:
  - 0 - ≤ 1 hour
  - >1 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 10 hours
  - 0 - ≤ 10 hours
  - >10 - ≤ 18 hours
  - 0 - ≤ 18 hours
  - >18 - ≤ 24 hours
  - > 24 hours
- Non-Mechanized:
  - 0 - ≤ 1 hour
  - >1 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 12 hours
  - >12 - ≤ 16 hours
  - >16 - ≤ 20 hours
  - >20 - ≤ 24 hours
  - 0 - ≤ 24 hours
  - >24 hours
- Average Interval in Days or Hours

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Reject Interval</li> <li>• Total Number of LSRs</li> <li>• Total number of Rejects</li> <li>• State and Region</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>LNP</li> <li>UNE Loop with LNP</li> </ul>	<ul style="list-style-type: none"> <li>Mechanized: 97% within 1 Hour</li> <li>Partially Mechanized: 85% within 24 Hours</li> <li>Partially Mechanized: 85% within 18 Hours (05/01/01)</li> <li>Partially Mechanized: 85% within 10 Hours (08/01/01)</li> <li>Non-Mechanized: 85% within 24 Hours</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>Not Applicable</li> </ul>

O-14: LNP-Reject Interval Distribution & Average Reject Interval



**O-15: LNP-Firm Order Confirmation Timeliness Interval Distribution & Firm Order Confirmation Average Interval****Definition**

Interval for Return of a Firm Order Confirmation (FOC Interval) is the average response time from receipt of a valid LSR to distribution of a firm order confirmation.

**Exclusions**

- Rejected LSRs
- Designated Holidays are excluded from the interval calculation.
- LSRs which are identified and classified as "Projects".
- The following hours for Partially Mechanized and Non-mechanized LSRs are excluded from the interval calculation:

Residence Resale Group – Monday through Saturday 7:00PM until 7:00AM

From 7:00 PM Saturday until 7:00 AM Monday.

Business Resale, Complex, UNE Groups – Monday through Friday 6:00PM until 8:00AM

From 6:00 PM Friday until 8:00 AM Monday.

The hours excluded will be altered to reflect changes in the Center operating hours. The LCSC will accept faxed LSRs only during posted hours of operation.

The interval will be the amount of time accrued from receipt of the LSR until normal closing of the center if an LSR is worked using overtime hours.

In the case of a Partially Mechanized LSR received and worked after normal business hours, the interval will be set at one (1) minute.

- Scheduled OSS Maintenance.

**Business Rules**

- **Fully Mechanized:** The elapsed time from receipt of a valid electronically submitted LSR (date and time stamp in EDI, LENS or TAG) until the LSR is processed, appropriate service orders are generated and a Firm Order Confirmation is returned to the CLEC via EDI, LENS or TAG.
- **Partially Mechanized:** The elapsed time from receipt of a valid electronically submitted LSR (date and time stamp in EDI, LENS, or TAG) which falls out for manual handling until appropriate service orders are issued by a BellSouth service representative via Direct Order Entry (DOE) or Service Order Negotiation Generation System (SONGS) to SOCS and a Firm Order Confirmation is returned to the CLEC via EDI, LENS, or TAG.
- **Total Mechanized:** Combination of Fully Mechanized and Partially Mechanized LSRs which are electronically submitted by the CLEC.
- **Non-Mechanized:** The elapsed time from receipt of a valid paper LSR (date and time stamp of FAX or date and time paper LSRs received in LCSC) until appropriate service orders are issued by a BellSouth service representative via Direct Order Entry (DOE) or Service Order Negotiation Generation System (SONGS) to SOCS and a Firm Order Confirmation is sent to the CLEC via LON.

**Calculation**

**Firm Order Confirmation Interval** = (a - b)

- a = Date & Time of Firm Order Confirmation
- b = Date & Time of Service Request Receipt)

**Average FOC Interval** = (c ÷ d)

- c = Sum of all FOC Intervals
- d = Total Number of Service Requests Confirmed in Reporting Period

**FOC Interval Distribution** (for each interval) = (e ÷ f) X 100

- e = Service Requests Confirmed in interval
- f = Total Service Requests Confirmed in the Reporting Period

**Report Structure**

Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized

- CLEC Specific
- CLEC Aggregate
- State and Region
- Fully Mechanized:
  - 0 - ≤ 15 minutes
  - >15 - ≤ 30 minutes
  - >30 - ≤ 45 minutes
  - >45 - ≤ 60 minutes
  - >60 - ≤ 90 minutes
  - >90 - ≤ 120 minutes
  - >120 - ≤ 180 minutes
  - 0 - ≤ 3 hours
  - >3 - ≤ 6 hours
  - >6 - ≤ 12 hours
  - >12 - ≤ 24 hours
  - >24 - ≤ 48 hours
  - >48 hours
- Partially Mechanized:
  - 0 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 10 hours
  - 0 - ≤ 10 hours
  - >10 - ≤ 18 hours
  - 0 - ≤ 18 hours
  - >18 - ≤ 24 hours
  - 0 - ≤ 24 hours
  - >24 - ≤ 48 hours
  - > 48 hours
- Non-Mechanized:
  - 0 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 12 hours
  - >12 - ≤ 16 hours
  - >16 - ≤ 20 hours
  - >20 - ≤ 24 hours
  - >24 - ≤ 36 hours
  - 0 - ≤ 36 hours
  - >36 - ≤ 48 hours
  - >48 hours

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
Report Month <ul style="list-style-type: none"> <li>• Total Number of LSRs</li> <li>• Total Number of FOCs</li> <li>• State and Region</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>LNP</li> <li>UNE Loop with LNP</li> </ul>	<ul style="list-style-type: none"> <li>Mechanized: 95% within 3 Hours</li> <li>Partially Mechanized: 85% within 24 Hours</li> <li>Partially Mechanized: 85% within 18 Hours (05/01/01)</li> <li>Partially Mechanized: 85% within 10 Hours (08/01/01)</li> <li>Non-Mechanized: 85% within 36 hours</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>Not Applicable</li> </ul>

O-15: LNP-Firm Order Confirmation Timeliness Interval Distribution & Firm Order Confirmation Average Interval

## Section 3: Provisioning

### P-1: Mean Held Order Interval & Distribution Intervals

#### Definition

When delays occur in completing CLEC orders, the average period that CLEC orders are held for BellSouth reasons, pending a delayed completion, should be no worse for the CLEC when compared to BellSouth delayed orders. Calculation of the interval is the total days orders are held and pending but not completed that have passed the currently committed due date; divided by the total number of held orders. This report is based on orders still pending, held and past their committed due date at the close of the reporting period. The distribution interval is based on the number of orders held and pending but not completed over 15 and 90 days. (Orders reported in the >90 day interval are also included in the >15 day interval.)

#### Exclusions

- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.)
- Disconnect (D) & From (F) orders
- Orders with appointment code of 'A' for Rural orders.

#### Business Rules

**Mean Held Order Interval:** This metric is computed at the close of each report period. The held order interval is established by first identifying all orders, at the close of the reporting interval, that both have not been reported as completed in SOCS and have passed the currently committed due date for the order. For each such order, the number of calendar days between the earliest committed due date on which BellSouth had a company missed appointment and the close of the reporting period is established and represents the held order interval for that particular order. The held order interval is accumulated by the standard groupings, unless otherwise noted, and the reason for the order being held. The total number of days accumulated in a category is then divided by the number of held orders within the same category to produce the mean held order interval. The interval is by calendar days with no exclusions for Holidays or Sundays.

CLEC Specific reporting is by type of held order (facilities, equipment, other), total number of orders held, and the total and average days.

**Held Order Distribution Interval:** This measure provides data to report total days held and identifies these in categories of >15 days and > 90 days. (Orders counted in >90 days are also included in > 15 days).

#### Calculation

**Mean Held Order Interval** =  $a + b$

- a = Sum of held-over-days for all Past Due Orders Held for the reporting period
- b = Number of Past Due Orders Held and Pending But Not Completed and past the committed due date

**Held Order Distribution Interval** (for each interval) =  $(c + d) \times 100$

- c = # of Orders Held for  $\geq 15$  days or # of Orders Held for  $\geq 90$  days
- d = Total # of Past Due Orders Held and Pending But Not Completed)

#### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Circuit Breakout < 10,  $\geq 10$  (except trunks)

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report month</li> <li>• CLEC Order Number and PON (PON)</li> <li>• Order Submission Date (TICKET_ID)</li> <li>• Committed Due Date (DD)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Hold Reason</li> <li>• Total line/circuit count</li> <li>• Geographic Scope</li> </ul>	<ul style="list-style-type: none"> <li>• Report month</li> <li>• BellSouth Order Number</li> <li>• Order Submission Date</li> <li>• Committed Due Date</li> <li>• Service Type</li> <li>• Hold Reason</li> <li>• Total line/circuit count</li> <li>• Geographic Scope</li> </ul>
<p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP (Standalone)	• Retail Residence and Business (POTS)
• INP (Standalone)	• Retail Residence and Business (POTS)
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop-Non-Design	• Retail Residence and Business - POTS Excluding Switch-Based Orders
• 2W Analog Loop w/LNP - Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/LNP- Non-Design	• Retail Residence and Business - POTS Excluding Switch-Based Orders
• 2W Analog Loop w/INP-Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/INP-Non-Design	• Retail Residence and Business - POTS Excluding Switch-Based Orders
• UNE Digital Loop < DS1	• Retail Digital Loop < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Loop ≥ DS1
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN - BRI
• UNE Line Sharing	• ADSL Provided to Retail
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice
• Local Interconnection Trunks	• Parity with Retail

**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## P-2: Average Jeopardy Notice Interval & Percentage of Orders Given Jeopardy Notices

### Definition

When BellSouth can determine in advance that a committed due date is in jeopardy for facility delay, it will provide advance notice to the CLEC.

The interval is from the date/time the notice is released to the CLEC/BellSouth systems until 5pm on the commitment date of the order. The Percent of Orders is the percentage of orders given jeopardy notices for facility delay in the count of orders confirmed in the report period.

### Exclusions

- Orders held for CLEC end user reasons
- Disconnect (D) & From (F) orders
- Non-Dispatch Orders

### Business Rules

When BellSouth can determine in advance that a committed due date is in jeopardy for facility delay, it will provide advance notice to the CLEC. The number of committed orders in a report period is the number of orders that have a due date in the reporting period. Jeopardy notices for interconnection trunks results are usually zero as these trunks seldom experience facility delays. The Committed due date is considered the Confirmed due date. This report measures dispatched orders only. If an order is originally sent as non-dispatch and it is determined there is a facility delay, the order is converted to a dispatch code so the facility problem can be corrected. It will remain coded dispatched until completion.

### Calculation

**Jeopardy Interval = a - b**

- a = Date and Time of Jeopardy Notice
- b = Date and Time of Scheduled Due Date on Service Order

**Average Jeopardy Interval = c ÷ d**

- c = Sum of all jeopardy intervals
- d = Number of Orders Notified of Jeopardy in Reporting Period

**Percent of Orders Given Jeopardy Notice = (e ÷ f) X 100**

- e = Number of Orders Given Jeopardy Notices in Reporting Period
- f = Number of Orders Confirmed (due) in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Dispatch Orders
- Mechanized Orders
- Non-Mechanized Orders

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number and PON</li> <li>• Date and Time Jeopardy Notice Sent</li> <li>• Committed Due Date</li> <li>• Service Type</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number</li> <li>• Date and Time Jeopardy Notice Sent</li> <li>• Committed Due Date</li> <li>• Service Type</li> </ul>
<p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark:
% Orders Given Jeopardy Notice	
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP (Standalone)	• Retail Residence and Business (POTS)
• INP (Standalone)	• Retail Residence and Business (POTS)
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design	• Retail Residence and Business - (POTS Excluding Switch-Based Orders)
• 2W Analog Loop w/LNP Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/LNP Non-Design	• Retail Residence and Business - (POTS Excluding Switch-Based Orders)
• 2W Analog Loop w/INP Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/INP Non-Design	• Retail Residence and Business (POTS Excluding Switch-Based Orders)
• UNE Digital Loop < DS1	• Retail Digital Loop < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Loop ≥ DS1
• UNE Loop + Port Combinations	• Retail Business and Residence
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN BRI
• UNE Line Sharing	• ADSL Provided to Retail
• UNE Other Design	• Retail Design
• UNE Other Non -Design	• Retail Residence and Business
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice
• Local Interconnection Trunks	• Parity with Retail
• Average Jeopardy Notice Interval	• 95% ≥ 48 Hours



**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## P-3: Percent Missed Installation Appointments

### Definition

"Percent missed installation appointments" monitors the reliability of BellSouth commitments with respect to committed due dates to assure that the CLEC can reliably quote expected due dates to their retail customer as compared to BellSouth. This measure is the percentage of total orders processed for which BellSouth is unable to complete the service orders on the committed due dates and reported for Total misses and End User Misses.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders Test Orders, etc.)
- Disconnect (D) & From (F) orders
- End User Misses on Local Interconnection Trunks

### Business Rules

Percent Missed Installation Appointments (PMI) is the percentage of orders with completion dates in the reporting period that are past the original committed due date. Missed Appointments caused by end-user reasons will be included and reported separately. The first commitment date on the service order that is a missed appointment is the missed appointment code used for calculation whether it is a BellSouth missed appointment or an End User missed appointment. The "due date" is any time on the confirmed due date. Which means there cannot be a cutoff time for commitments, as certain types of orders are requested to be worked after standard business hours. Also, during Daylight Savings Time, field technicians are scheduled until 9PM in some areas and the customer is offered a greater range of intervals from which to select.

### Calculation

**Percent Missed Installation Appointments** =  $(a \div b) \times 100$

- a = Number of Orders with Completion date in Reporting Period past the Original Committed Due Date
- b = Number of Orders Completed in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Report in Categories of <10 lines/circuits ≥ 10 lines/circuits (except trunks)
- Dispatch/No Dispatch

**Report Explanation:** The difference between End User MA and Total MA is the result of BellSouth caused misses. Here, Total MA is the total percent of orders missed either by BellSouth or CLEC end user. The End User MA represents the percentage of orders missed by the CLEC or their end user.

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number and PON (PON)</li> <li>• Committed Due Date (DD)</li> <li>• Completion Date (CMPLTN DD)</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number</li> <li>• Committed Due Date (DD)</li> <li>• Completion Date (CMPLTN DD)</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> <li>• Geographic Scope</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP (Standalone)	• Retail Residence and Business (POTS)
• INP (Standalone)	• Retail Residence and Business (POTS)
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) - Dispatch - Non-Dispatch (Dispatch In)
• 2W Analog Loop w/LNP Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/LNP Non-Design - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) - Dispatch - Non-Dispatch (Dispatch In)
• 2W Analog Loop w/INP Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/INP Non-Design - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence and Business (POTS Excluding Switch-Based Orders) - Dispatch - Non-Dispatch (Dispatch In)
• UNE Digital Loop < DS1	• Retail Digital Loop < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Loop ≥ DS1
• UNE Loop + Port Combinations - Dispatch Out - Non-Dispatch - Dispatch In - Switch-Based	• Retail Residence and Business - Dispatch Out - Non-Dispatch - Dispatch In - Switch-Based
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Combo Other - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence, Business and Design Dispatch (Including Dispatch Out and Dispatch In) - Dispatch - Non-Dispatch (Dispatch In)
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN - BRI
• UNE Line Sharing	• ADSL Provided to Retail
• UNE Other Design	• Retail Design
• UNE Other Non - Design	• Retail Residence and Business
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice
• Local Interconnection Trunks	• Parity with Retail

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## P-4: Average Completion Interval (OCI) & Order Completion Interval Distribution

### Definition

The "average completion interval" measure monitors the interval of time it takes BellSouth to provide service for the CLEC or its own customers. The "Order Completion Interval Distribution" provides the percentages of orders completed within certain time periods. This report measures how well BellSouth meets the interval offered to customers on service orders.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.)
- Disconnect (D&F) orders (Except "D" orders associated with LNP Standalone)
- "L" Appointment coded orders (where the customer has requested a later than offered interval)

### Business Rules

The actual completion interval is determined for each order processed during the reporting period. The completion interval is the elapsed time from when BellSouth issues a FOC or SOCS date time stamp receipt of an order from the CLEC to BellSouth's actual order completion date. This includes all delays for BellSouth's CLEC/End Users. The clock starts when a valid order number is assigned by SOCS and stops when the technician or system completes the order in SOCS. Elapsed time for each order is accumulated for each reporting dimension. The accumulated time for each reporting dimension is then divided by the associated total number of orders completed. Orders that are worked on zero due dates are calculated with a .33-day interval (8 hours) in order to report a portion of a day interval. These orders are issued and worked/completed on the same day. They can be either flow through orders (no field work-non-dispatched) or field orders (dispatched).

The interval breakout for UNE and Design is: 0-5 = 0-4.99, 5-10 = 5-9.99, 10-15 = 10-14.99, 15-20 = 15- 19.99, 20-25 = 20-24.99, 25-30 = 25-29.99,  $\geq 30 = 30$  and greater.

### Calculation

**Completion Interval** = (a - b)

- a = Completion Date
- b = Order Issue Date

**Average Completion Interval** = (c ÷ d)

- c = Sum of all Completion Intervals
- d = Count of Orders Completed in Reporting Period

**Order Completion Interval Distribution** (for each interval) = (e ÷ f) X 100

- e = Service Orders Completed in "X" days
- f = Total Service Orders Completed in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Dispatch / No Dispatch categories applicable to all levels except trunks
- Residence & Business reported in day intervals = 0,1,3,4,5,5+
- UNE and Design reported in day intervals =0-5,5-10,10-15,15-20,20-25,25-30, $\geq 30$
- All Levels are reported <10 line/circuits;  $\geq 10$  line/circuits (except trunks)
- ISDN Orders included in Non-Design

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Company Name</li> <li>• Order Number (PON)</li> <li>• Application Date &amp; Time (TICKET_ID)</li> <li>• Completion Date (CMLTN_DT)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number</li> <li>• Application Date &amp; Time</li> <li>• Order Completion Date &amp; Time</li> <li>• Service Type</li> <li>• Geographic Scope</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP (Standalone)	• Retail Residence and Business (POTS)
• INP (Standalone)	• Retail Residence and Business (POTS)
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul>	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul>
• 2W Analog Loop w/LNP Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/LNP Non-Design <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul>	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul>
• 2W Analog Loop w/INP Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/INP Non-Design <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul>	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul>
• UNE Digital Loop < DS1	• Retail Digital Loop < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Loop ≥ DS1
• UNE Loop + Port Combinations <ul style="list-style-type: none"> <li>- Dispatch Out</li> <li>- Non-Dispatch</li> <li>- Dispatch In</li> <li>- Switch-Based</li> </ul>	• Retail Residence and Business <ul style="list-style-type: none"> <li>- Dispatch Out</li> <li>- Non-Dispatch</li> <li>- Dispatch In</li> <li>- Switch-Based</li> </ul>
• UNE Switch Ports	• Retail Residence and Business (POTS)

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• UNE Combo Other                             <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Retail Residence, Business and Design Dispatch (Including Dispatch Out and Dispatch In)                             <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• UNE xDSL (HDSL, ADSL and UCL) without conditioning</li> </ul>	<ul style="list-style-type: none"> <li>• 7 Days</li> </ul>
<ul style="list-style-type: none"> <li>• UNE xDSL (HDSL, ADSL and UCL) with conditioning</li> </ul>	<ul style="list-style-type: none"> <li>• 14 Days</li> </ul>
<ul style="list-style-type: none"> <li>• UNE ISDN</li> </ul>	<ul style="list-style-type: none"> <li>• Retail ISDN BRI</li> </ul>
<ul style="list-style-type: none"> <li>• UNE Line Sharing</li> </ul>	<ul style="list-style-type: none"> <li>• ADSL Provided to Retail</li> </ul>
<ul style="list-style-type: none"> <li>• UNE Other Design</li> </ul>	<ul style="list-style-type: none"> <li>• Retail Design</li> </ul>
<ul style="list-style-type: none"> <li>• UNE Other Non-Design</li> </ul>	<ul style="list-style-type: none"> <li>• Retail Residence and Business</li> </ul>
<ul style="list-style-type: none"> <li>• Local Transport (Unbundled Interoffice Transport)</li> </ul>	<ul style="list-style-type: none"> <li>• Retail DS1/DS3 Interoffice</li> </ul>
<ul style="list-style-type: none"> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Parity with Retail</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale POTS</li> </ul>	<ul style="list-style-type: none"> <li>• Retail Residence and Business (POTS)</li> </ul>
<ul style="list-style-type: none"> <li>• Resale Design</li> </ul>	<ul style="list-style-type: none"> <li>• Retail Design</li> </ul>
<ul style="list-style-type: none"> <li>• UNE Loop + Port Combinations</li> </ul>	<ul style="list-style-type: none"> <li>• Retail Residence and Business</li> </ul>
<ul style="list-style-type: none"> <li>• UNE Loops</li> </ul>	<ul style="list-style-type: none"> <li>• Retail Residence and Business Dispatch</li> </ul>
<ul style="list-style-type: none"> <li>• UNE xDSL without conditioning</li> </ul>	<ul style="list-style-type: none"> <li>• 7 Days</li> </ul>
<ul style="list-style-type: none"> <li>• UNE xDSL with conditioning</li> </ul>	<ul style="list-style-type: none"> <li>• 14 Days</li> </ul>
<ul style="list-style-type: none"> <li>• UNE Line Sharing</li> </ul>	<ul style="list-style-type: none"> <li>• ADSL Provided to Retail</li> </ul>
<ul style="list-style-type: none"> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Parity with Retail</li> </ul>

## P-5: Average Completion Notice Interval

### Definitions

The Completion Notice Interval is the elapsed time between the BellSouth reported completion of work and the issuance of a valid completion notice to the CLEC.

### Exclusions

- Cancelled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.)
- D&F orders (Exception: "D" orders associated with LNP Standalone)

### Business Rules

Measurement on interval of completion date and time entered by a field technician on dispatched orders, and 5PM start time on the due date for non-dispatched orders; to the release of a notice to the CLEC/BellSouth of the completion status. The field technician notifies the CLEC the work was complete and then he/she enters the completion time stamp information in his/her computer. This information switches through to the SOCS systems either completing the order or rejecting the order to the Work Management Center (WMC). If the completion is rejected, it is manually corrected and then completed by the WMC. The notice is returned on each individual order.

The start time for all orders is the completion stamp either by the field technician or the 5PM due date stamp; the end time for mechanized orders is the time stamp the notice was transmitted to the CLEC interface (LENS, EDI, OR TAG). For non-mechanized orders the end timestamp will be timestamp of order update to C-SOTS system.

### Calculation

**Completion Notice Interval = (a - b)**

- a = Date and Time of Notice of Completion
- b = Date and Time of Work Completion

**Average Completion Notice Interval = c ÷ d**

- c = Sum of all Completion Notice Intervals
- d = Number of Orders with Notice of Completion in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Mechanized Orders
- Non-Mechanized Orders
- Reporting intervals in Hours; 0,1-2,2-4,4-8,8-12,12-24, ≥ 24 plus Overall Average Hour Interval (The categories are inclusive of these time intervals: 0-1 = 0.99; 1-2 = 1-1.99; 2-4 = 2-3.99, etc.)
- Reported in categories of <10 line / circuits; ≥ 10 line/circuits (except trunks)



**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number (so_nbr)</li> <li>• Work Completion Date (cmpltm_dt)</li> <li>• Work Completion Time</li> <li>• Completion Notice Availability Date</li> <li>• Completion Notice Availability Time</li> <li>• Service Type</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number (so_nbr)</li> <li>• Work Completion Date (cmpltm_dt)</li> <li>• Work Completion Time</li> <li>• Completion Notice Availability Date</li> <li>• Completion Notice Availability Time</li> <li>• Service Type</li> <li>• Geographic Scope</li> </ul> <p><b>NOTE:</b> Code in parentheses is the corresponding header found in the raw data file.</p>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP (Standalone)	• Retail Residence and Business (POTS)
• INP (Standalone)	• Retail Residence and Business (POTS)
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design	• Retail Residence and Business - (POTS Excluding Switch-Based Orders)
- Dispatch	- Dispatch
- Non-Dispatch (Dispatch In)	- Non-Dispatch (Dispatch In)
• 2W Analog Loop w/LNP Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/LNP Non-Design	• Retail Residence and Business - (POTS Excluding Switch-Based Orders)
- Dispatch	- Dispatch
- Non-Dispatch (Dispatch In)	- Non-Dispatch (Dispatch In)
• 2W Analog Loop w/INP Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/INP Non-Design	• Retail Residence and Business (POTS Excluding Switch- Based Orders)
- Dispatch	- Dispatch
- Non-Dispatch (Dispatch In)	- Non-Dispatch (Dispatch In)
• UNE Digital Loop < DS1	• Retail Digital Loop < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Loop ≥ DS1
• UNE Loop + Port Combinations	• Retail Residence and Business
- Dispatch Out	- Dispatch Out
- Non-Dispatch	- Non-Dispatch
- Dispatch In	- Dispatch In
- Switch-Based	- Switch-Based
• UNE Switch Ports	• Retail Residence and Business (POTS)

P-5: Average Completion Notice Interval

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• UNE Combo Other                             <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Retail Residence, Business and Design Dispatch (Including Dispatch Out and Dispatch In)                             <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>• UNE xDSL (HDSL, ADSL and UCL)</li> </ul>	<ul style="list-style-type: none"> <li>• ADSL Provided to Retail</li> </ul>
<ul style="list-style-type: none"> <li>• UNE ISDN</li> </ul>	<ul style="list-style-type: none"> <li>• Retail ISDN BRI</li> </ul>
<ul style="list-style-type: none"> <li>• UNE Line Sharing</li> </ul>	<ul style="list-style-type: none"> <li>• ADSL Provided to Retail</li> </ul>
<ul style="list-style-type: none"> <li>• UNE Other Design</li> </ul>	<ul style="list-style-type: none"> <li>• Retail Design</li> </ul>
<ul style="list-style-type: none"> <li>• UNE Other Non-Design</li> </ul>	<ul style="list-style-type: none"> <li>• Retail Residence and Business</li> </ul>
<ul style="list-style-type: none"> <li>• Local Transport (Unbundled Interoffice Transport)</li> </ul>	<ul style="list-style-type: none"> <li>• Retail DS1/DS3 Interoffice</li> </ul>
<ul style="list-style-type: none"> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Parity with Retail</li> </ul>

**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

## P-6: % Completions/Attempts without Notice or < 24 hours Notice

### Definition

This Report measures the interval from the FOC end timestamp on the LSR until 5:00 P.M. on the original committed due date of a service order. The purpose of this measure is to report if BellSouth is returning a FOC to the CLEC in time for the CLEC to notify their customer of the scheduled date.

### Exclusions

"0" dated orders or any request where the subscriber requested an earlier due date of < 24 hours prior to the original commitment date, or any LSR received < 24 hours prior to the original commitment date.

### Business Rules

#### For CLEC Results:

Calculation would exclude any successful or unsuccessful service delivery where the CLEC was informed at least 24 hours in advance. BellSouth may also exclude from calculation any LSRs received from the requesting CLEC with less than 24 hour notice prior to the commitment date.

#### For BellSouth Results:

BellSouth does not provide a FOC to its retail customers.

### Calculation

**Percent Completions or Attempts without Notice or with Less Than 24 Hours Notice** =  $(a + b) \times 100$

- a = Completion Dispatches (Successful and Unsuccessful) With No FOC or FOC Received < 24 Hours of original Committed Due Date
- b = All Completions

### Report Structure

- CLEC Specific
- CLEC Aggregate
- Dispatch /Non-Dispatch
- Total Orders FOC < 24 Hours
- Total Completed Service Orders
- % FOC < 24 Hours

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Committed Due Date (DD)</li> <li>• FOC End Timestamp</li> <li>• Report Month</li> <li>• CLEC Order Number and PON</li> <li>• Geographic Scope                             <ul style="list-style-type: none"> <li>- State / Region</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale Residence</li> <li>• Resale Business</li> <li>• Resale Design</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP (Standalone)</li> <li>• INP (Standalone)</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop-Non-Design</li> <li>• 2W Analog Loop w/LNP - Design</li> <li>• 2W Analog Loop w/LNP- Non-Design</li> <li>• 2W Analog Loop w/INP-Design</li> <li>• 2W Analog Loop w/INP-Non-Design</li> <li>• UNE Digital Loop &lt; DS1</li> <li>• UNE Digital Loop &gt;=DS1</li> <li>• UNE Loop + Port Combinations</li> <li>• UNE Switch ports</li> <li>• UNE Combo Other</li> <li>• UNE xDSL (HDSL, ADSL and UCL)</li> <li>• UNE ISDN</li> <li>• UNE Line Sharing</li> <li>• UNE Other Design</li> <li>• UNE Other Non -Design</li> <li>• Local Transport (Unbundled Interoffice Transport)</li> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic</li> </ul>

P-6: % Completions/Attempts without Notice or &lt; 24 hours Notice

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## P-7: Coordinated Customer Conversions Interval

### Definition

This report measures the average time it takes BellSouth to disconnect an unbundled loop from the BellSouth switch and cross connect it to CLEC equipment. This measurement applies to service orders with INP and with LNP, and where the CLEC has requested BellSouth to provide a coordinated cut over.

### Exclusions

- Any order canceled by the CLEC will be excluded from this measurement.
- Delays due to CLEC following disconnection of the unbundled loop
- Unbundled Loops where there is no existing subscriber loop and loops where coordination is not requested.

### Business Rules

When the service order includes INP, the interval includes the total time for the cut over including the translation time to place the line back in service on the ported line. When the service order includes LNP, the interval only includes the total time for the cut over (the port of the number is controlled by the CLEC). The interval is calculated for the entire cut over time for the service order and then divided by items worked in that time to give the average per-item interval for each service order.

### Calculation

**Coordinated Customer Conversions Interval** = (a - b)

- a = Completion Date and Time for Cross Connection of a Coordinated Unbundled Loop
- b = Disconnection Date and Time of an Coordinated Unbundled Loop

**Percent Coordinated Customer Conversions** (for each interval) = (c ÷ d) X 100

- c = Total number of Coordinated Customer Conversions for each interval
- d = Total Number of Unbundled Loop with Coordinated Conversions (items) for the reporting period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- The interval breakout is 0-5 = 0-4.99, 5-15 = 5-14.99, ≥15 = 15 and greater, plus Overall Average Interval.

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number</li> <li>• Committed Due Date (DD)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Cut over Start Time</li> <li>• Cut over Completion Time</li> <li>• Portability Start and Completion Times (INP orders)</li> <li>• Total Conversions (Items)</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• No BellSouth Analog Exists</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Unbundled Loops with INP/LNP</li> <li>• Unbundled Loops without INP/LNP</li> </ul>	<ul style="list-style-type: none"> <li>• 95% ≤ 15 minutes</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Unbundled Loops	• 95% ≤ 15 minutes

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number (so_nbr)</li> <li>• Committed Due Date (DD)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Cut over Scheduled Start Time</li> <li>• Cut over Actual Start Time</li> <li>• Total Conversions Orders</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• No BellSouth Analog exists</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Product Reporting Level</li> <li>- SL1 Time Specific</li> <li>- SL1 Non-Time Specific</li> <li>- SL2 Time Specific</li> <li>- SL2 Non-Time Specific</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Within + or - 15 minutes of Scheduled Start Time</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>- UNE Loops</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Within + or - 15 minutes of Scheduled Start time</li> </ul>

P-7A: Coordinated Customer Conversions – Hot Cut Timeliness% Within Interval and Average Interval

## P-7B: Coordinated Customer Conversions – Average Recovery Time

### Definition

Measures the time between notification and resolution by BellSouth of a service outage found that can be isolated to the BellSouth side of the network. The time between notification and resolution by BellSouth must be measured to ensure that CLEC customers do not experience unjustifiable lengthy service outages during a Coordinated Customer Conversion. This report measures outages associated with Coordinated Customer Conversions prior to service order completion.

### Exclusions

- Cut overs where service outages are due to CLEC caused reasons
- Cut overs where service outages are due to end-user caused reasons

### Business Rules

Measures the outage duration time related to Coordinated Customer Conversions from the initial trouble notification until the trouble has been restored and the CLEC has been notified. The duration time is defined as the time from the initial trouble notification until the trouble has been restored and the CLEC has been notified. The interval is calculated on the total outage time for the circuits divided by the total number of outages restored during the report period to give the average outage duration.

### Calculation

**Recovery Time = (a - b)**

- a = Date & Time That Trouble is Closed by CLEC
- b = Date & Time Initial Trouble is Opened with BellSouth

**Average Recovery Time = (c ÷ d)**

- c = Sum of all the Recovery Times
- d = Number of Troubles Referred to the BellSouth

### Report Structure

- CLEC Specific
- CLEC Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Company Name</li> <li>• CLEC Order Number (so_nbr)</li> <li>• Committed Due Date (DD)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• CLEC Acceptance Conflict (CLEC_CONFLICT)</li> <li>• CLEC Conflict Resolved (CLEC_RESOLVE)</li> <li>• CLEC Conflict MFC (CLEC_CONFLICT_MFC)</li> <li>• Total Conversion Orders</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• None</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Unbundled Loops with INP/LNP</li> <li>• Unbundled Loops without INP/LNP</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic</li> </ul>



**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## P-7C: Hot Cut Conversions - % Provisioning Troubles Received Within 7 days of a completed Service Order

### Definition

Percent Provisioning Troubles received within 7 days of a completed service order associated with a Coordinated and Non-Coordinated Customer Conversion. Measures the quality and accuracy of Hot Cut Conversion Activities.

### Exclusions

- Any order canceled by the CLEC
- Troubles caused by Customer Provided Equipment

### Business Rules

Measures the quality and accuracy of completed service orders associated with Coordinated and Non-Coordinated Hot Cut Conversions. The first trouble report received on a circuit ID within 7 days following a service order completion is counted in this measure. Subsequent trouble reports are measured in Repeat Report Rate. Reports are calculated searching in the prior report period for completed Coordinated and Non-Coordinated Hot Cut Conversion service orders and following 7 days after the completion of the service order for a trouble report issue date.

### Calculation

**% Provisioning Troubles within 7 days of service order completion** =  $(a \div b) \times 100$

- a = The sum of all Hot Cut Circuits with a trouble within 7 days following service order(s) completion
- b = The total number of Hot Cut service order circuits completed in the previous report calendar month

### Report Structure

- CLEC Specific
- CLEC Aggregate
- Dispatch/Non-Dispatch

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number (so_nbr)</li> <li>• PON</li> <li>• Order Submission Date (TICKET_ID)</li> <li>• Order Submission Time (TICKET_ID)</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> <li>• Geographic Scope</li> <li>• Total Conversion Circuits</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• No BellSouth Analog exists</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• UNE Loop Design</li> <li>• UNE Loop Non-Design</li> </ul>	<ul style="list-style-type: none"> <li>• ≤ 5%</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• UNE Loops	• ≤ 5%

P-7C: Hot Cut Conversions - % Provisioning Troubles Received Within 7 days of a completed Service Order

## P-8: Cooperative Acceptance Testing - % of xDSL Loops Tested

P-8: Cooperative Acceptance Testing - % of xDSL Loops Tested

### Definition

The loop will be considered cooperatively tested when the BellSouth technician places a call to the CLEC representative to initiate cooperative testing and jointly performs the tests with the CLEC.

### Exclusions

- Testing failures due to CLEC (incorrect contact number, CLEC not ready, etc.)
- xDSL lines with no request for cooperative testing

### Business Rules

When a BellSouth technician finishes delivering an order for an xDSL loop where the CLEC order calls for cooperative testing at the customer's premise, the BellSouth technician is to call a toll free number to the CLEC testing center. The BellSouth technician and the CLEC representative at the center then test the line. As an example of the type of testing performed, the testing center may ask the technician to put a short on the line so that the center can run a test to see if it can identify the short.

### Calculation

**Cooperative Acceptance Testing - % of xDSL Loops Tested** = (a ÷ b) X 100

- a = Total number of successful xDSL cooperative tests for xDSL lines where cooperative testing was requested in the reporting period
- b = Total Number of xDSL line tests requested by the CLEC and scheduled in the reporting period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- Type of Loop tested

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Company Name (OCN)</li> <li>• CLEC Order Number (so_nbr) and PON (PON)</li> <li>• Committed Due Date (DD)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Acceptance Testing Completed (ACCEPT_TESTING)</li> <li>• Acceptance Testing Declined (ACCEPT_TESTING)</li> <li>• Total xDSL Orders</li> </ul> <p>Note: Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• No BellSouth analog exists</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation:	Retail Analog/Benchmark:
<ul style="list-style-type: none"> <li>• UNE xDSL                             <ul style="list-style-type: none"> <li>- ADSL</li> <li>- HDSL</li> <li>- UCL</li> <li>- OTHER</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 95% of Lines Tested</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation:	SEEM Analog/Benchmark:
• UNE xDSL	• 95% of Lines Tested

## P-9: % Provisioning Troubles within 30 days of Service Order Completion

### Definition

Percent Provisioning Troubles within 30 days of Service Order Completion measures the quality and accuracy of Service order activities.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.)
- D & F orders
- Trouble reports caused and closed out to Customer Provided Equipment (CPE)

### Business Rules

Measures the quality and accuracy of completed orders. The first trouble report from a service order after completion is counted in this measure. Subsequent trouble reports are measured in Repeat Report Rate. Reports are calculated searching in the prior report period for completed service orders and following 30 days after completion of the service order for a trouble report issue date.

D & F orders are excluded as there is no subsequent activity following a disconnect.

**Note:** Standalone LNP historical data is not available in the maintenance systems (LMOS or WFA).

### Calculation

**% Provisioning Troubles within 30 days of Service Order Activity** =  $(a \div b) \times 100$

- a = Trouble reports on all completed orders 30 days following service order(s) completion
- b = All Service Orders completed in the previous report calendar month

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Reported in categories of <10 line/circuits;  $\geq$  10 line/circuits (except trunks)
- Dispatch / No Dispatch (except trunks)

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number and PON</li> <li>• Order Submission Date (TICKET_ID)</li> <li>• Order Submission Time (TICKET_ID)</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number</li> <li>• Order Submission Date</li> <li>• Order Submission Time</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> <li>• Geographic Scope</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale Residence</li> </ul>	<ul style="list-style-type: none"> <li>• Retail Residence</li> </ul>

<b>SQM LEVEL of Disaggregation</b>	<b>Retail Analog/Benchmark</b>
• Resale Business	• Retail business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) - Dispatch - Non-Dispatch (Dispatch In)
• 2W Analog Loop w/LNP Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/LNP Non-Design - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) - Dispatch - Non-Dispatch (Dispatch In)
• 2W Analog Loop w/INP Design	• Retail Residence and Business Dispatch
• 2W Analog Loop w/INP Non-Design - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence and Business (POTS - Excluding Switch-Based Orders) - Dispatch - Non-Dispatch (Dispatch In)
• UNE Digital Loop < DS1	• Retail Digital Loop < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Loop ≥ DS1
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL provided to Retail
• UNE ISDN	• Retail ISDN BRI
• UNE Line Sharing	• ADSL Provided to Retail
• INP (Standalone)	• Retail Residence and Business (POTS)
• LNP (Standalone)	• Retail Residence and Business (POTS)
• UNE Loop + Port Combinations - Dispatch Out - Non-Dispatch - Dispatch In - Switch-Based	• Retail Residence and Business - Dispatch Out - Non-Dispatch - Dispatch In - Switch-Based
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Combo Other - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence, Business and Design Dispatch (Including Dispatch Out and Dispatch In) - Dispatch - Non-Dispatch (Dispatch In)
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice
• UNE Other Non -Design	• Retail Residence and Business
• UNE Other Design	• Retail Design
• Local Interconnection Trunks	• Parity with Retail

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail



## P-10: Total Service Order Cycle Time (TSOCT)

### Definition

This report measures the total service order cycle time from receipt of a valid service order request to the return of a completion notice to the CLEC Interface.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.)
- D (Disconnect - Except "D" orders associated with LNP Standalone.) and F (From) orders. (From is disconnect side of a move order when the customer moves to a new address).
- "L" Appointment coded orders (where the customer has requested a later than offered interval)
- Orders with CLEC/Subscriber caused delays or CLEC/Subscriber requested due date changes.

### Business Rules

The interval is determined for each order processed during the reporting period. This measurement combines three reports: FOC Timeliness, Average Order Completion Interval and Average Completion Notice Interval. For UNE XDSL Loop, this measurement combines Service Inquiry Interval (SI), FOC Timeliness, Average Completion Interval, and Average Completion Notice Interval.

This interval starts with the receipt of a valid service order request and stops when a completion notice is sent to the CLEC Interface (LENS, TAG OR EDI) and the BellSouth Legacy Systems. Elapsed time for each order is accumulated for each reporting dimension. The accumulated time for each reporting dimension is then divided by the associated total number of orders completed. Orders that are worked on zero due dates are calculated with a .33 day interval (8 hours) in order to report a portion of a day interval. These orders are issued and worked/completed on same day. They can be either flow through orders (no field work-non-dispatched) or field orders (dispatched).

Reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs.

### Calculation

**Total Service Order Cycle Time = (a - b)**

- a = Service Order Completion Notice Date
- b = Service Request Receipt Date

**Average Total Service Order Cycle Time = (c ÷ d)**

- c = Sum of all Total Service Order Cycle Times
- d = Total Number Service Orders Completed in Reporting Period

**Total Service Order Cycle Time Interval Distribution (for each interval) = (e ÷ f) X 100**

- e = Total Number of Service Requests Completed in "X" minutes/hours
- f = Total Number of Service Requests Received in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Fully Mechanized; Partially Mechanized; Non-Mechanized
- Report in categories of <10 line/circuits; ≥ 10 line/circuits (except trunks)
- Dispatch / No Dispatch categories applicable to all levels except trunks
- Intervals 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, ≥ 30 Days. The interval breakout is: 0-5 = 0-4.99, 5-10 = 5-9.99, 10-15 = 10-14.99, 15-20 = 15-19.99, 20-25 = 20-24.99, 25-30 = 25-29.99, ≥ 30 = 30 and greater.

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Interval for FOC</li> <li>• CLEC Company Name (OCN)</li> <li>• Order Number (PON)</li> <li>• Submission Date &amp; Time (TICKET_ID)</li> <li>• Completion Date (CMLPTN_DT)</li> <li>• Completion Notice Date and Time</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number</li> <li>• Order Submission Date &amp; Time</li> <li>• Order Completion Date &amp; Time</li> <li>• Service Type</li> <li>• Geographic Scope</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale Residence</li> <li>• Resale Business</li> <li>• Resale Design</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP (Standalone)</li> <li>• INP (Standalone)</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop Non-Design</li> <li>• 2W Analog Loop w/LNP Design</li> <li>• 2W Analog Loop w/LNP Non-Design</li> <li>• UNE Switch Ports</li> <li>• UNE Loop + Port Combinations</li> <li>• UNE Combo Other</li> <li>• UNE xDSL (HDSL, ADSL and UCL)</li> <li>• UNE ISDN</li> <li>• UNE Line Sharing</li> <li>• UNE Other Design</li> <li>• UNE Other Non -Design</li> <li>• UNE Digital Loops &lt; DS1</li> <li>• UNE Digital Loops ≥ DS1</li> <li>• Local Transport (Unbundled Interoffice Trans port)</li> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

P-10: Total Service Order Cycle Time (TSOCT)

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

P-10: Total Service Order Cycle Time (TSOCT)

## P-11: Service Order Accuracy

### Definition

The "service order accuracy" measurement measures the accuracy and completeness of a sample of BellSouth service orders by comparing what was ordered and what was completed.

### Exclusions

- Cancelled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.)
- D & F orders

### Business Rules

A statistically valid sample of service orders, completed during a monthly reporting period, is compared to the original account profile and the order that the CLEC sent to BellSouth. An order is "completed without error" if all service attributes and account detail changes (as determined by comparing the original order) completely and accurately reflect the activity specified on the original order and any supplemental CLEC order. For both small and large sample sizes, when a Service Request cannot be matched with a corresponding Service Order, it will not be counted. For small sample sizes an effort will be made to replace the service request.

### Calculation

$$\text{Percent Service Order Accuracy} = (a \div b) \times 100$$

- a = Orders Completed without Error
- b = Orders Completed in Reporting Period

### Report Structure

- CLEC Aggregate
- Reported in categories of <10 line/circuits; > = 10 line/circuits
- Dispatch / No Dispatch

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number and PON</li> <li>• Local Service Request (LSR)</li> <li>• Order Submission Date</li> <li>• Committed Due Date</li> <li>• Service Type</li> <li>• Standard Order Activity</li> </ul>	<ul style="list-style-type: none"> <li>• No BellSouth Analog Exist</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark:
<ul style="list-style-type: none"> <li>• Resale Residence</li> <li>• Resale Business</li> <li>• Resale Design (Specials)</li> <li>• UNE Specials (Design)</li> <li>• UNE (Non-Design)</li> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Accurate</li> </ul>

**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation:	SEEM Analog/Benchmark:
• Not Applicable	• Not Applicable

## P-12: LNP-Percent Missed Installation Appointments

### Definition

“Percent missed installation appointments” monitors the reliability of BellSouth commitments with respect to committed due dates to assure that CLECs can reliably quote expected due dates to their retail customer as compared to BellSouth. This measure is the percentage of total orders processed for which BellSouth is unable to complete the service orders on the committed due dates and reported for total misses and End User Misses.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.) where identifiable

### Business Rules

Percent Missed Installation Appointments (PMI) is the percentage of total orders processed for which BellSouth is unable to complete the service orders on the committed due dates. Missed Appointments caused by end-user reasons will be included and reported in a separate category. The first commitment date on the service order that is a missed appointment is the missed appointment code used for calculation whether it is a BellSouth missed appointment or an End User missed appointment. The “due date” is any time on the confirmed due date, which means there cannot be a cutoff time for commitments as certain types of orders are requested to be worked after standard business hours.

### Calculation

$$\text{LNP Percent Missed Installation Appointments} = (a + b) \times 100$$

- a = Number of Orders with Completion date in Reporting Period past the Original Committed Due Date
- b = Number of Orders Completed in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- Geographic Scope
  - State/Region
- Report in Categories of <10 lines/circuits ≥ 10 lines/circuits (except trunks)

**Report explanation:** Total Missed Appointments is the total percent of orders missed either by BellSouth or the CLEC end user. End User MA represents the percentage of orders missed by the CLEC end user. The difference between End User Missed Appointments and Total Missed Appointments is the result of BellSouth caused misses.

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number and PON (PON)</li> <li>• Committed Due Date (DD)</li> <li>• Completion Date (CMPLTN DD)</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
• LNP	• Retail Residence and Business (POTS)

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• LNP	• 95% Due Dates Met <sup>a</sup>

<sup>a</sup>Due to data structure issues, BellSouth is using a benchmark comparison for SEEM rather than the Truncated Z as stated in the Order.

## P-13: LNP-Average Disconnect Timeliness Interval & Disconnect Timeliness Interval Distribution

### Definition

Disconnect Timeliness is defined as the interval between the time ESI Number Manager receives the valid 'Number Ported' message from NPAC (signifying the CLEC 'Activate') until the time the Disconnect is completed in the Central Office switch. This interval effectively measures BellSouth responsiveness by isolating it from impacts that are caused by CLEC related activities.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.) where identifiable.

### Business Rules

The Disconnect Timeliness interval is determined for each telephone number ported associated with a disconnect service order processed on an LSR during the reporting period. The Disconnect Timeliness interval is the elapsed time from when BellSouth receives a valid 'Number Ported' message in ESI Number Manager (signifying the CLEC 'Activate') for each telephone number ported until each telephone number on the service order is disconnected in the Central Office switch. Elapsed time for each ported telephone number is accumulated for each reporting dimension. The accumulated time for each reporting dimension is then divided by the total number of selected telephone numbers disconnected in the reporting period.

### Calculation

**Disconnect Timeliness Interval** = (a - b)

- a = Completion Date and Time in Central Office switch for each number on disconnect order
- b = Valid 'Number Ported' message received date & time

**Average Disconnect Timeliness Interval** = (c ÷ d)

- c = Sum of all Disconnect Timeliness Intervals
- d = Total Number of disconnected numbers completed in reporting period

**Disconnect Timeliness Interval Distribution** (for each interval) = (e ÷ f) X 100

- e = Disconnected numbers completed in "X" days
- f = Total disconnect numbers completed in reporting period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- Geographic Scope
  - State, Region

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Order Number</li> <li>• Telephone Number / Circuit Number</li> <li>• Committed Due Date</li> <li>• Receipt Date / Time (ESI Number Manager)</li> <li>• Date/Time of Recent Change Notice</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>



**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation:	SQM Retail Analog/Benchmark:
• LNP	• 95% within 15 Minutes

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• LNP Standalone	• 95% within 15 Minutes

## P-14: LNP-Total Service Order Cycle Time (TSOCT)

### Definition

Total Service Order Cycle Time measures the interval from receipt of a valid service order request to the completion of the final service order associated with that service request.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.) where identifiable
- "L" appointment coded orders (indicating the customer has requested a later than offered interval)
- "S" missed appointment coded orders (indicating subscriber missed appointments), except for "SP" codes (indicating subscriber prior due date requested). This would include "S" codes assigned to subsequent due date changes.

### Business Rules

The interval is determined for each order processed during the reporting period. This measurement combines three reports: FOC Timeliness, Average Order Completion Interval and Average Completion Notice Interval.

This interval starts with the receipt of a valid service order request and stops when a completion notice is sent to the CLEC Interface (LENS, TAG OR EDI). Elapsed time for each order is accumulated for each reporting dimension. The accumulated time for each reporting dimension is then divided by the associated total number of orders completed. Orders that are worked on zero due dates are calculated with a .33 day interval (8 hours) in order to report a portion of a day interval. These orders are issued and worked/completed on the same day.

Reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs.

### Calculation

**Total Service Order Cycle Time** = (a - b)

- a = Service Order Completion Notice Date
- b = Service Request Receipt Date

**Average Total Service Order Cycle Time** = (c ÷ d)

- c = Sum of all Total Service Order Cycle Times
- d = Total Number Service Orders Completed in Reporting Period

**Total Service Order Cycle Time Interval Distribution** (for each interval) = (e ÷ f) X 100

- e = Total Number of Service Orders Completed in "X" minutes/hours
- f = Total Number of Service Orders Received in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- Fully Mechanized; Partially Mechanized; Non-Mechanized
- Report in categories of <10 lines/circuits; ≥lines/circuits (except trunks)
- Intervals 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, ≥ 30 Days. The interval breakout is: 0-5 = 0-4.99, 5-10 = 5-9.99, 10-15 = 10-14.99, 15-20 = 15-19.99, 20-25 = 20-24.99, 25-30 = 25-29.99, ≥ 30 = 30 and greater.

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Interval for FOC</li> <li>• CLEC Company Name (OCN)</li> <li>• Order Number (PON)</li> <li>• Submission Date &amp; Time (TICKET_ID)</li> <li>• Completion Date (CMLPTN_DT)</li> <li>• Completion Notice Date and Time</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Geographic Scope</li> </ul> <p>Note: Code in parentheses is the corresponding header found in the raw data file</p>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• LNP</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

P-14: LNP-Total Service Order Cycle Time (TSOCT)

## Section 4: Maintenance & Repair

### M&R-1: Missed Repair Appointments

#### Definition

The percent of trouble reports not cleared by the committed date and time.

#### Exclusions

- Trouble tickets canceled at the CLEC request.
- BellSouth trouble reports associated with internal or administrative service.
- Customer Provided Equipment (CPE) troubles or CLEC Equipment Trouble.

#### Business Rules

The negotiated commitment date and time is established when the repair report is received. The cleared time is the date and time that BellSouth personnel clear the trouble and closes the trouble report in his/her Computer Access Terminal (CAT) or workstation. If this is after the Commitment time, the report is flagged as a "Missed Commitment" or a missed repair appointment. When the data for this measure is collected for BellSouth and a CLEC, it can be used to compare the percentage of the time repair appointments are missed due to BellSouth reasons. (No access reports are not part of this measure because they are not a missed appointment.)

**Note:** Appointment intervals vary with force availability in the POTS environment. Specials and Trunk intervals are standard interval appointments of no greater than 24 hours. Standalone LNP historical data is not available in the maintenance systems (LMOS or WFA).

#### Calculation

$$\text{Percentage of Missed Repair Appointments} = (a \div b) \times 100$$

- a = Count of Customer Troubles Not Cleared by the Quoted Commitment Date and Time
- b = Total Trouble reports closed in Reporting Period

#### Report Structure

- Dispatch / Non-Dispatch
- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

#### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report month</li> <li>• CLEC Company Name</li> <li>• Submission Date &amp; Time (TICKET_ID)</li> <li>• Completion Date (CMLTN_DT)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Disposition and Cause (CAUSE_CD &amp; CAUSE_DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report month</li> <li>• BellSouth Company Code</li> <li>• Submission Date &amp; Time</li> <li>• Completion Date</li> <li>• Service Type</li> <li>• Disposition and Cause (Non-Design /Non-Special Only)</li> <li>• Trouble Code (Design and Trunking Services)</li> <li>• Geographic Scope</li> </ul>

**SQM Disaggregation - Retail Analog/Benchmark**

SQM Level of Disaggregation	SQM Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP (Standalone) (Not Available in Maintenance)	• Not Applicable
• 2W Analog Loop Design	• Retail Residence & Business Dispatch
• 2W Analog Loop Non – Design	• Retail Residence & Business (POTS) (Exclusion of Switch-Based Feature Troubles)
• UNE Loop + Port Combinations	• Retail Residence & Business
• UNE Switch Ports	• Retail Residence & Business (POTS)
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN – BRI
• UNE Line Sharing	• ADSL Provided to Retail
• UNE Other Design	• Retail Design
• UNE Other Non – Design	• Retail Residence & Business
• Local Interconnection Trunks	• Parity with Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## M&R-2: Customer Trouble Report Rate

### Definition

Percent of initial and repeated customer direct or referred troubles reported within a calendar month per 100 lines/circuits in service.

### Exclusions

- Trouble tickets canceled at the CLEC request.
- BellSouth trouble reports associated with internal or administrative service.
- Customer Provided Equipment (CPE) troubles or CLEC Equipment Trouble.

### Business Rules

Customer Trouble Report Rate is computed by accumulating the number of maintenance initial and repeated trouble reports during the reporting period. The resulting number of trouble reports are divided by the total "number of service" lines, ports or combination that exist for the CLECs and BellSouth respectively at the end of the report month.

### Calculation

**Customer Trouble Report Rate** = (a + b) X 100

- a = Count of Initial and Repeated Trouble Reports closed in the Current Period
- b = Number of Service Access Lines in service at End of the Report Period

### Report Structure

- Dispatch / Non-Dispatch
- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Company Name</li> <li>• Ticket Submission Date &amp; Time (TICKET_ID)</li> <li>• Ticket Completion Date (CMLTN_DT)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Disposition and Cause (CAUSE_CD &amp; CAUSE_DESC)</li> <li>• # Service Access Lines in Service at the end of period</li> <li>• Geographic Scope</li> </ul> <p>Note: Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Company Code</li> <li>• Ticket Submission Date &amp; Time</li> <li>• Ticket Completion Date</li> <li>• Service Type</li> <li>• Disposition and Cause (Non-Design /Non-Special Only)</li> <li>• Trouble Code (Design and Trunking Services)</li> <li>• # Service Access Lines in Service at the end of period</li> <li>• Geographic Scope</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP (Standalone) (Not Available in Maintenance)	• Not Applicable

SQM Level of Disaggregation	SQM Analog/Benchmark
• 2W Analog Loop Design	• Retail Residence & Business Dispatch
• 2W Analog Loop Non – Design	• Retail Residence & Business (POTS) (Exclusion of Switch-Based Feature Troubles)
• UNE Loop + Port Combinations	• Retail Residence & Business
• UNE Switch Ports	• Retail Residence & Business (POTS)
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN – BRI
• UNE Line Sharing	• ADSL Provided to Retail
• UNE Other Design	• Retail Design
• UNE Other Non – Design	• Retail Residence & Business
• Local Interconnection Trunks	• Parity with Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## M&R-3: Maintenance Average Duration

### Definition

The Average duration of Customer Trouble Reports from the receipt of the Customer Trouble Report to the time the trouble report is cleared.

### Exclusions

- Trouble tickets canceled at the CLEC request.
- BellSouth trouble reports associated with internal or administrative service.
- Customer Provided Equipment (CPE) troubles or CLEC Equipment Trouble.

### Business Rules

For Average Duration the clock starts on the date and time of the receipt of a correct repair request. The clock stops on the date and time the service is restored and the BellSouth or CLEC customer is notified (when the technician completes the trouble ticket on his/her CAT or work systems).

### Calculation

**Maintenance Duration** = (a - b)

- a = Date and Time of Service Restoration
- b = Date and Time Trouble Ticket was Opened

**Average Maintenance Duration** = (c ÷ d)

- c = Total of all maintenance durations in the reporting period
- d = Total Closed Troubles in the reporting period

### Report Structure

- Dispatch / Non-Dispatch
- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience:	Relating to BellSouth Performance:
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets (LINE_NBR)</li> <li>• CLEC Company Name</li> <li>• Ticket Submission Date &amp; Time (TICKET_ID)</li> <li>• Ticket Completion Date (CMLPTN_DT)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Disposition and Cause (CAUSE_CD &amp; CAUSE_DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets</li> <li>• BellSouth Company Code</li> <li>• Ticket Submission Date</li> <li>• Ticket Submission Time</li> <li>• Ticket Completion Date</li> <li>• Ticket Completion Time</li> <li>• Total Duration Time</li> <li>• Service Type</li> <li>• Disposition and Cause (Non-Design /Non-Special Only)</li> <li>• Trouble Code (Design and Trunking Services)</li> <li>• Geographic Scope</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business



SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP (Standalone) (Not Available in Maintenance)	• Not Applicable
• 2W Analog Loop Design	• Retail Residence & Business Dispatch
• 2W Analog Loop Non – Design	• Retail Residence & Business (POTS) (Exclusion of Switch-Based Feature Troubles)
• UNE Loop + Port Combinations	• Retail Residence & Business
• UNE Switch Ports	• Retail Residence & Business (POTS)
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN – BRI
• UNE Line Sharing	• ADSL Provided to Retail
• UNE Other Design	• Retail Design
• UNE Other Non – Design	• Retail Residence & Business
• Local Interconnection Trunks	• Parity with Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## M&R-4: Percent Repeat Troubles within 30 Days

M&amp;R-4: Percent Repeat Troubles within 30 Days

### Definition

Closed trouble reports on the same line/circuit as a previous trouble report received within 30 calendar days as a percent of total troubles closed reported

### Exclusions

- Trouble tickets canceled at the CLEC request.
- BellSouth trouble reports associated with internal or administrative service.
- Customer Provided Equipment (CPE) troubles or CLEC Equipment Trouble.

### Business Rules

Includes Customer trouble reports received within 30 days of an original Customer trouble report

### Calculation

**Percent Repeat Troubles within 30 Days** =  $(a \div b) \times 100$

- a = Count of closed Customer Troubles where more than one trouble report was logged for the same service line within a continuous 30 days
- b = Total Trouble Reports Closed in Reporting Period

### Report Structure

- Dispatch / Non-Dispatch
- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets (LINE_NBR)</li> <li>• CLEC Company Name</li> <li>• Ticket Submission Date &amp; Time (TICKET_ID)</li> <li>• Ticket Completion Date (CMLPTN_DT)</li> <li>• Total and Percent Repeat Trouble Reports within 30 Days (TOT_REPEAT)</li> <li>• Service Type</li> <li>• Disposition and Cause (CAUSE_CD &amp; CAUSE_DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets</li> <li>• BellSouth Company Code</li> <li>• Ticket Submission Date</li> <li>• Ticket Submission Time</li> <li>• Ticket Completion Date</li> <li>• Ticket Completion Time</li> <li>• Total and Percent Repeat Trouble Reports within 30 Days</li> <li>• Service Type</li> <li>• Disposition and Cause (Non-Design /Non-Special Only)</li> <li>• Trouble Code (Design and Trunking Services)</li> <li>• Geographic Scope</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale ISDN	• Retail ISDN
• LNP (Standalone) (Not Available in Maintenance)	• Not Applicable
• 2W Analog Loop Design	• Retail Residence & Business Dispatch
• 2W Analog Loop Non – Design	• Retail Residence & Business (POTS) (Exclusion of Switch-Based Feature Troubles)
• UNE Loop + Port Combinations	• Retail Residence & Business
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Combo Other	• Retail Residence, Business & Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN – BRI
• UNE Line Sharing	• ADSL Provided to Retail
• UNE Other Design	• Retail Design
• UNE Other Non – Design	• Retail Residence & Business
• Local Interconnection Trunks	• Parity with Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## M&R-5: Out of Service (OOS) > 24 Hours

### Definition

For Out of Service Troubles (no dial tone, cannot be called or cannot call out) the percentage of Total OOS Troubles cleared in excess of 24 hours. (All design services are considered to be out of service).

### Exclusions

- Trouble Reports canceled at the CLEC request
- BellSouth Trouble Reports associated with administrative service
- Customer Provided Equipment (CPE) Troubles or CLEC Equipment Troubles.

### Business Rules

Customer Trouble reports that are out of service and cleared in excess of 24 hours. The clock begins when the trouble report is created in LMOS/WFA and the trouble is counted if the elapsed time exceeds 24 hours.

### Calculation

**Out of Service (OOS) > 24 hours = (a ÷ b) X 100**

- a = Total Cleared Troubles OOS > 24 Hours
- b = Total OOS Troubles in Reporting Period

### Report Structure

- Dispatch / Non - Dispatch
- CLEC Specific
- BellSouth Aggregate
- CLEC Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets</li> <li>• CLEC Company Name</li> <li>• Ticket Submission Date &amp; Time (TICKET_ID)</li> <li>• Ticket Completion Date (CMPLTN_DT)</li> <li>• Percentage of Customer Troubles out of</li> <li>• Service &gt; 24 Hours (OOS&gt;24_FLAG)</li> <li>• Service type (CLASS_SVC_DESC)</li> <li>• Disposition and Cause (CAUSE_CD &amp; CAUSE-DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets</li> <li>• BellSouth Company Code</li> <li>• Ticket Submission Date</li> <li>• Ticket Submission time</li> <li>• Ticket Completion Date</li> <li>• Ticket Completion Time</li> <li>• Percent of Customer Troubles out of Service &gt; 24 Hours</li> <li>• Service type</li> <li>• Disposition and Cause (Non-Design/Non-Special only)</li> <li>• Trouble Code (Design and Trunking Services)</li> <li>• Geographic Scope</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale ISDN	• Retail ISDN
• LNP (Standalone) (Not Available in Maintenance)	• Not Applicable
• 2W Analog Loop Design	• Retail Residence & Business Dispatch
• 2W Analog Loop Non – Design	• Retail Residence & Business (POTS) (Exclusion of Switch-Based Feature Troubles)
• UNE Loop + Port Combinations	• Retail Residence & Business
• UNE Switch Ports	• Retail Residence & Business (POTS)
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN – BRI
• UNE Line Sharing	• ADSL Provided to Retail
• UNE Other Design	• Retail Design
• UNE Other Non – Design	• Retail Residence & Business
• Local Interconnection Trunks	• Parity with Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## M&R-6: Average Answer Time – Repair Centers

### Definition

This measures the average time a customer is in queue when calling a BellSouth Repair Center.

### Exclusions

None

### Business Rules

The clock starts when a CLEC Representative or BellSouth customer makes a choice on the Repair Center's menu and is put in queue for the next repair attendant. The clock stops when the repair attendant answers the call (abandoned calls are not included).

**Note:** The Total Column is a combined BellSouth Residence and Business number.

### Calculation

**Answer Time for BellSouth Repair Centers = (a - b)**

- a = Time BellSouth Repair Attendant Answers Call
- b = Time of entry into queue after ACD Selection

**Average Answer Time for BellSouth Repair Centers = (c ÷ d)**

- c = Sum of all Answer Times
- d = Total number of calls by reporting period

### Report Structure

- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
• CLEC Average Answer Time	• BellSouth Average Answer Time

### SQM Disaggregation - Analog / Benchmark

SQM Level of Disaggregation	Retail Analog / Benchmark
• Region. CLEC/BellSouth Service Centers and BellSouth Repair Centers are regional.	• For CLEC, Average Answer Times in UNE Center and BRMC are comparable to the Average Answer Times in the BellSouth Repair Centers.

### SEEM Measure

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

M&R-6: Average Answer Time – Repair Centers

## M&R-7: Mean Time To Notify CLEC of Network Outages

### Definition

This report measures the time it takes for the BellSouth Network Management Center (NMC) to notify the CLEC of major network outages.

### Exclusions

None

### Business Rules

BellSouth will inform the CLEC of any major network outages (key customer accounts) via a page or email. When the BellSouth NMC becomes aware of a network incident, the CLEC and BellSouth will be notified electronically. The notification time for each outage will be measured in minutes and divided by the number of outages for the reporting period. These are broadcast messages. It is up to those receiving the message to determine if they have customers affected by the incident.

The CLECs will be notified in accordance with the rules outlined in Appendix D of the CLEC "Customer Guide" which is published on the internet at: [www.interconnection.bellsouth.com/guides/other\\_guides/html/gopue/indexf.htm](http://www.interconnection.bellsouth.com/guides/other_guides/html/gopue/indexf.htm).

### Calculation

**Time to Notify CLEC = (a - b)**

- a = Date and Time BellSouth Notified CLEC
- b = Date and Time BellSouth Detected Network Incident

**Mean Time to Notify CLEC = (c ÷ d)**

- c = Sum of all Times to Notify CLEC
- d = Count of Network Incidents

### Report Structure

- BellSouth Aggregate
- CLEC Aggregate
- CLEC Specific

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Major Network Events</li> <li>• Date/Time of Incident</li> <li>• Date/Time of Notification</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Major Network Events</li> <li>• Date/Time of Incident</li> <li>• Date/Time of Notification</li> </ul>

### SQM Disaggregation - Analog / Benchmark

SQM Level of Disaggregation	Retail Analog / Benchmark
<ul style="list-style-type: none"> <li>• BellSouth Aggregate</li> <li>• CLEC Aggregate</li> <li>• CLEC Specific</li> </ul>	<ul style="list-style-type: none"> <li>• Parity by Design</li> </ul>



**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

M&R-7: Mean Time To Notify CLEC of Network Outages

## Section 5: Billing

### B-1: Invoice Accuracy

#### Definition

This measure provides the percentage of accuracy of the billing invoices rendered to CLECs during the current month.

#### Exclusions

- Adjustments not related to billing errors (e.g., credits for service outage, special promotion credits, adjustments to satisfy the customer)
- Test Accounts

#### Business Rules

The accuracy of billing invoices delivered by BellSouth to the CLEC must enable them to provide a degree of billing accuracy comparative to BellSouth bills rendered to retail customers of BellSouth. CLECs request adjustments on bills determined to be incorrect. The BellSouth Billing verification process includes manually analyzing a sample of local bills from each bill period. The bill verification process draws from a mix of different customer billing options and types of service. An end-to-end auditing process is performed for new products and services. Internal measurements and controls are maintained on all billing processes.

#### Calculation

$$\text{Invoice Accuracy} = [(a - b) \div a] \times 100$$

- a = Absolute Value of Total Billed Revenues during current month
- b = Absolute Value of Billing Related Adjustments during current month

#### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Geographic Scope
  - Region
  - State

#### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Invoice Type                             <ul style="list-style-type: none"> <li>- UNE</li> <li>- Resale</li> <li>- Interconnection</li> </ul> </li> <li>• Total Billed Revenue</li> <li>• Billing Related Adjustments</li> </ul>	<ul style="list-style-type: none"> <li>• Report month</li> <li>• Retail Type                             <ul style="list-style-type: none"> <li>- CRIS</li> <li>- CABS</li> </ul> </li> <li>• Total Billed Revenue</li> <li>• Billing Related Adjustments</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Product / Invoice Type</li> <li>- Resale</li> <li>- UNE</li> <li>- Interconnection</li> </ul>	<ul style="list-style-type: none"> <li>• CLEC Invoice Accuracy is comparable to BellSouth Invoice Accuracy</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• CLEC State</li> <li>• BellSouth State</li> </ul>	<ul style="list-style-type: none"> <li>• Parity with Retail</li> </ul>

B-1: Invoice Accuracy

## B2: Mean Time to Deliver Invoices

### Definition

Bill Distribution is calculated as follows: CRIS BILLS-The number of workdays is reported for CRIS bills. This is calculated by counting the Bill Period date as the first work day. Weekends and holidays are excluded when counting workdays. J/N Bills are counted in the CRIS work day category for the purposes of the measurement since their billing account number (Q account) is provided from the CRIS system.

CABS BILLS-The number of calendar days is reported for CABS bills. This is calculated by counting the day following the Bill Period date as the first calendar day. Weekends and holidays are included when counting the calendar days.

### Exclusions

Any invoices rejected due to formatting or content errors.

### Business Rules

This report measures the mean interval for timeliness of billing records delivered to CLECs in an agreed upon format. CRIS-based invoices are measured in business days, and CABS-based invoices in calendar days.

### Calculation

Invoice Timeliness = (a - b)

- a = Invoice Transmission Date
- b = Close Date of Scheduled Bill Cycle

Mean Time To Deliver Invoices = (c ÷ d)

- c = Sum of all Invoice Timeliness intervals
- d = Count of Invoices Transmitted in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Geographic Scope
  - Region
  - State

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report month</li> <li>• Invoice Type                             <ul style="list-style-type: none"> <li>- UNE</li> <li>- Resale</li> <li>- Interconnection</li> </ul> </li> <li>• Invoice Transmission Count</li> <li>• Date of Scheduled Bill Close</li> </ul>	<ul style="list-style-type: none"> <li>• Report month</li> <li>• Invoice Type                             <ul style="list-style-type: none"> <li>- CRIS</li> <li>- CABS</li> </ul> </li> <li>• Invoice Transmission Count</li> <li>• Date of Scheduled Bill Close</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
Product / Invoice Type <ul style="list-style-type: none"> <li>• Resale</li> <li>• UNE</li> <li>• Interconnection</li> </ul>	<ul style="list-style-type: none"> <li>• CRIS-based invoices will be released for delivery within six (6) business days.</li> <li>• CABS-based invoices will be released for delivery within eight (8) calendar days.</li> <li>• CLEC Average Delivery Intervals for both CRIS and CABS Invoices are comparable to BellSouth Average delivery for both systems.</li> </ul>

**SEEM Measure**

SEEM Measure		
	Tier I	X
Yes	Tier II	X
	Tier III	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• CLEC State                             <ul style="list-style-type: none"> <li>- CRIS</li> <li>- CABS</li> </ul> </li> <li>• BellSouth Region</li> </ul>	<ul style="list-style-type: none"> <li>• Parity with Retail</li> </ul>

B2: Mean Time to Deliver Invoices

## B3: Usage Data Delivery Accuracy

### Definition

This measurement captures the percentage of recorded usage that is delivered error free and in an acceptable format to the appropriate Competitive Local Exchange Carrier (CLEC). These percentages will provide the necessary data for use as a comparative measurement for BellSouth performance. This measurement captures Data Delivery Accuracy rather than the accuracy of the individual usage recording.

### Exclusions

None

### Business Rules

The accuracy of the data delivery of usage records delivered by BellSouth to the CLEC must enable them to provide a degree of accuracy comparative to BellSouth bills rendered to their retail customers. If errors are detected in the delivery process, they are investigated, evaluated and documented. Errors are corrected and the data retransmitted to the CLEC.

### Calculation

**Usage Data Delivery Accuracy** =  $(a - b) \div a \times 100$

- a = Total number of usage data packs sent during current month
- b = Total number of usage data packs requiring retransmission during current month

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Geographic Scope
  - Region

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type                             <ul style="list-style-type: none"> <li>- BellSouth Recorded</li> <li>- Non-BellSouth Recorded</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Report month</li> <li>• Record Type</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Region</li> </ul>	<ul style="list-style-type: none"> <li>• CLEC Usage Data Delivery Accuracy is comparable to BellSouth Usage Data Delivery Accuracy</li> </ul>

### SEEM Measure

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"><li>• CLEC State</li><li>• BellSouth Region</li></ul>	<ul style="list-style-type: none"><li>• Parity with Retail</li></ul>

B3: Usage Data Delivery Accuracy

## B4: Usage Data Delivery Completeness

### Definition

This measurement provides percentage of complete and accurately recorded usage data (usage recorded by BellSouth and usage recorded by other companies and sent to BellSouth for billing) that is processed and transmitted to the CLEC within thirty (30) days of the message recording date. A parity measure is also provided showing completeness of BellSouth messages processed and transmitted via CMDS. BellSouth delivers its own retail usage from recording location to billing location via CMDS as well as delivering billing data to other companies. Timeliness, Completeness and Mean Time to Deliver Usage measures are reported on the same report.

### Exclusions

None

### Business Rules

The purpose of these measurements is to demonstrate the level of quality of usage data delivered to the appropriate CLEC. Method of delivery is at the option of the CLEC.

### Calculation

**Usage Data Delivery Completeness** =  $(a \div b) \times 100$

- a = Total number of Recorded usage records delivered during current month that are within thirty (30) days of the message recording date
- b = Total number of Recorded usage records delivered during the current month

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Region

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type                             <ul style="list-style-type: none"> <li>- BellSouth Recorded</li> <li>- Non-BellSouth Recorded</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Report month</li> <li>• Record Type</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Region</li> </ul>	<ul style="list-style-type: none"> <li>• CLEC Usage Data Delivery Completeness is comparable to BellSouth Usage Data Delivery Completeness</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	



**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

B4: Usage Data Delivery Completeness

## B5: Usage Data Delivery Timeliness

### Definition

This measurement provides a percentage of recorded usage data (usage recorded by BellSouth and usage recorded by other companies and sent to BellSouth for billing) that is delivered to the appropriate CLEC within six (6) calendar days from the receipt of the initial recording. A parity measure is also provided showing timeliness of BellSouth messages processed and transmitted via CMDS. Timeliness, Completeness and Mean Time to Deliver Usage measures are reported on the same report.

### Exclusions

None

### Business Rules

The purpose of this measurement is to demonstrate the level of timeliness for processing and transmission of usage data delivered to the appropriate CLEC. The usage data will be mechanically transmitted or mailed to the CLEC data processing center once daily. The Timeliness interval of usage recorded by other companies is measured from the date BellSouth receives the records to the date BellSouth distributes to the CLEC. Method of delivery is at the option of the CLEC.

### Calculation

**Usage Data Delivery Timeliness Current month** =  $(a \div b) \times 100$

- a = Total number of usage records sent within six (6) calendar days from initial recording/receipt
- b = Total number of usage records sent

### Report Structure

- CLEC Aggregate
- CLEC Specific
- BellSouth Aggregate
- Region

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type                             <ul style="list-style-type: none"> <li>- BellSouth Recorded</li> <li>- Non-BellSouth Recorded</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Report Monthly</li> <li>• Record Type</li> </ul>

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Region</li> </ul>	<ul style="list-style-type: none"> <li>• CLEC Usage Data Delivery Timeliness is comparable to BellSouth Usage Data Delivery Timeliness</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

B5: Usage Data Delivery Timeliness

## B6: Mean Time to Deliver Usage

### Definition

This measurement provides the average time it takes to deliver Usage Records to a CLEC. A party measure is also provided showing timeliness of BellSouth messages processed and transmitted via CMDS. Timeliness, Completeness and Mean Time to Deliver Usage measures are reported on the same report.

### Exclusions

None

### Business Rules

The purpose of this measurement is to demonstrate the average number of days it takes BellSouth to deliver Usage data to the appropriate CLEC. Usage data is mechanically transmitted or mailed to the CLEC data processing center once daily. Method of delivery is at the option of the CLEC.

### Calculation

**Mean Time to Deliver Usage** = (a X b) ÷ c

- a = Volume of Records Delivered
- b = Estimated number of days to deliver
- c = Total Record Volume Delivered

**Note:** Any usage record falling in the 30+ day interval will be added using an average figure of 31.5 days.

### Report Structure

- CLEC Aggregate
- CLEC Specific
- BellSouth Aggregate
- Region

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type                             <ul style="list-style-type: none"> <li>- BellSouth Recorded</li> <li>- Non-BellSouth Recorded</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Report Monthly</li> <li>• Record Type</li> </ul>

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Region</li> </ul>	<ul style="list-style-type: none"> <li>• Mean Time to Deliver Usage to CLEC is comparable to Mean Time to Deliver Usage to BellSouth</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

B6: Mean Time to Deliver Usage

## B7: Recurring Charge Completeness

### Definition

This measure captures percentage of fractional recurring charges appearing on the correct bill.

### Exclusions

None

### Business Rules

The effective date of the recurring charge must be within 30 days of the bill date for the charge to appear on the correct bill.

### Calculation

**Recurring Charge Completeness** =  $(a \div b) \times 100$

- a = Count of fractional recurring charges that are on the correct bill<sup>1</sup>
- b = Total count of fractional recurring charges that are on the correct bill

<sup>1</sup>Correct bill = next available bill

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report month</li> <li>• Invoice type</li> <li>• Total recurring charges billed</li> <li>• Total billed on time</li> </ul>	<ul style="list-style-type: none"> <li>• Report month</li> <li>• Retail Analog</li> <li>• Total recurring charges billed</li> <li>• Total billed on time</li> </ul>

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
Product/Invoice Type	
<ul style="list-style-type: none"> <li>• Resale</li> </ul>	<ul style="list-style-type: none"> <li>• Parity</li> </ul>
<ul style="list-style-type: none"> <li>• UNE</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark 90%</li> </ul>
<ul style="list-style-type: none"> <li>• Interconnection</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark 90%</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

B7: Recurring Charge Completeness

## B8: Non-Recurring Charge Completeness

### Definition

This measure captures percentage of non-recurring charges appearing on the correct bill.

### Exclusions

None

### Business Rules

The effective date of the non-recurring charge must be within 30 days of the bill date for the charge to appear on the correct bill.

### Calculation

**Non-Recurring Charge Completeness** =  $(a \div b) \times 100$

- a = Count of non-recurring charges that are on the correct bill<sup>1</sup>
- b = Total count of non-recurring charges that are on the correct bill

<sup>1</sup>Correct bill = next available bill

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report month</li> <li>• Invoice type</li> <li>• Total non-recurring charges billed</li> <li>• Total billed on time</li> </ul>	<ul style="list-style-type: none"> <li>• Report month</li> <li>• Retail Analog</li> <li>• Total non-recurring charges billed</li> <li>• Total billed on time</li> </ul>

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark:
Product/Invoice Type	
• Resale	• Parity
• UNE	• Benchmark 90%
• Interconnection	• Benchmark 90%

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	



SEEM Disaggregation - Analog/Benchmark

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

B8: Non-Recurring Charge Completeness

## Section 6: Operator Services And Directory Assistance

### OS-1: Speed to Answer Performance/Average Speed to Answer - Toll

#### Definition

Measurement of the average time in seconds calls wait before answered by a toll operator.

#### Exclusions

None

#### Business Rules

The clock starts when the customer enters the queue and the clock stops when a BellSouth representative answers the call or the customer abandons the call. The length of each call is determined by measuring, using a scanning technique, and accumulating the elapsed time from the entry of a customer call into the BellSouth call management system queue until the customer call is abandoned or transferred to BellSouth personnel assigned to handle calls for assistance. The system makes no distinction between CLEC customers and BellSouth customers.

#### Calculation

Speed to Answer Performance/Average Speed to Answer - Toll =  $a \div b$

- a = Total queue time
- b = Total calls answered

**Note:** Total queue time includes time that answered calls wait in queue as well as time abandoned calls wait in queue prior to abandonment.

#### Report Structure

- Reported for the aggregate of BellSouth and CLECs
  - State

#### Data Retained (on Aggregate Basis)

- For the items below, BellSouth's Performance Measurement Analysis Platform (PMAP) receives a final computation; therefore, no raw data file is available in PMAP
- Month
- Call Type (Toll)
- Average Speed of Answer

#### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
• Nonc	• Parity by Design

**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

OS-1: Speed to Answer Performance/Average Speed to Answer - Toll

## OS-2: Speed to Answer Performance/Percent Answered with "X" Seconds – Toll

OS-2: Speed to Answer Performance/Percent Answered with "X" Seconds – Toll

### Definition

Measurement of the percent of toll calls that are answered in less than ten seconds

### Exclusions

None

### Business Rules

The clock starts when the customer enters the queue and the clock stops when a BellSouth representative answers the call or the customer abandons the call. The length of each call is determined by measuring, using a scanning technique, and accumulating the elapsed time from the entry of a customer call into the BellSouth call management system queue until the customer call is abandoned or transferred to BellSouth personnel assigned to handle calls for assistance. The system makes no distinction between CLEC customers and BellSouth customers.

### Calculation

The Percent Answered within "X" Seconds measurement for toll is derived by using the BellCore Statistical Answer Conversion Tables, to convert the Average Speed to Answer measure into a percent of calls answered within "X" seconds. The BellCore Conversion Tables are specific to the defined parameters of work time, number of operators, max queue size and call abandonment rates.

### Report Structure

- Reported for the aggregate of BellSouth and CLECs
- State

### Data Retained (on Aggregate Basis)

- For the items below, BellSouth's Performance Measurement Analysis Platform (PMAP) receives a final computation; therefore, no raw data file is available in PMAP
- Month
- Call Type (Toll)
- Average Speed of Answer

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation:	Retail Analog/Benchmark:
• None	• Parity by Design

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

### SEEM Disaggregation - Analog/Benchmark

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

**DA-1: Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA)**

DA-1: Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA)

**Definition**

Measurement of the average time in seconds calls wait before answered by a DA operator.

**Exclusions**

None

**Business Rules**

The clock starts when the customer enters the queue and the clock stops when a BellSouth representative answers the call or the customer abandons the call. The length of each call is determined by measuring, using a scanning technique, and accumulating the elapsed time from the entry of a customer call into the BellSouth call management system queue until the customer call is abandoned or transferred to BellSouth personnel assigned to handle calls for assistance. The system makes no distinction between CLEC customers and BellSouth customers.

**Calculation**

Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA) =  $a \div b$

- a = Total queue time
- b = Total calls answered

**Note:** Total queue time includes time that answered calls wait in queue as well as time abandoned calls wait in queue prior to abandonment.

**Report Structure**

- Reported for the aggregate of BellSouth and CLECs
  - State

**Data Retained (on Aggregate Basis)**

- For the items below, BellSouth's Performance Measurement Analysis Platform (PMAP) receives a final computation; therefore, no raw data file is available in PMAP
- Month
- Call Type (DA)
- Average Speed of Answer

**SQM Level of Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

DA-1: Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA)

**DA-2: Speed to Answer Performance/Percent Answered within "X" Seconds – Directory Assistance (DA)**

DA-2: Speed to Answer Performance/Percent Answered within "X" Seconds – Directory Assistance (DA)

**Definition**

Measurement of the percent of DA calls that are answered in less than twelve seconds.

**Exclusions**

None

**Business Rules**

The clock starts when the customer enters the queue and the clock stops when a BellSouth representative answers the call or the customer abandons the call. The length of each call is determined by measuring, using a scanning technique, and accumulating the elapsed time from the entry of a customer call into the BellSouth call management system queue until the customer call is abandoned or transferred to BellSouth personnel assigned to handle calls for assistance. The system makes no distinction between CLEC customers and BellSouth customers.

**Calculation**

The Percent Answered within "X" Seconds measurement for DA is derived by using the BellCore Statistical Answer Conversion Tables, to convert the Average Speed to Answer measure into a percent of calls answered within "X" seconds. The BellCore Conversion Tables are specific to the defined parameters of work time, number of operators, max queue size and call abandonment rates.

**Report Structure**

- Reported for the aggregate of BellSouth and CLECs
- State

**Data Retained (on Aggregate Basis)**

- For the items below, BellSouth's Performance Measurement Analysis Platform (PMAP) receives a final computation; therefore, no raw data file is available in PMAP.
- Month
- Call Type (DA)
- Average Speed of Answer

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## Section 7: Database Update Information

### D-1: Average Database Update Interval

#### Definition

This report measures the interval from receipt of the database change request to the completion of the update to the database for Line Information Database (LIDB), Directory Assistance and Directory Listings. For E-911, see Section 8.

#### Exclusions

- Updates Canceled by the CLEC
- Initial update when supplemented by CLEC
- BellSouth updates associated with internal or administrative use of local services.

#### Business Rules

The interval for this measure begins with the date and time stamp when a service order is completed and the completion notice is released to all systems to be updated with the order information including Directory Assistance, Directory Listings, and Line Information Database (LIDB). The end time stamp is the date and time of completion of updates to the system.

##### For BellSouth Results:

The BellSouth computation is identical to that for the CLEC with the clarifications noted below.

##### Other Clarifications and Qualification:

- For LIDB, the elapsed time for a BellSouth update is measured from the point in time when the BellSouth file maintenance process makes the LIDB update information available until the date and time reported by BellSouth that database updates are completed.
- Results for the CLECs are captured and reported at the update level by Reporting Dimension (see below).
- The Completion Date is the date upon which BellSouth issues the Update Completion Notice to the CLEC.
- If the CLEC initiates a supplement to the originally submitted update and the supplement reflects changes in customer requirements (rather than responding to BellSouth initiated changes), then the update submission date and time will be the date and time of BellSouth receipt of a syntactically correct update supplement. Update activities responding to BellSouth initiated changes will not result in changes to the update submission date and time used for the purposes of computing the update completion interval.
- Elapsed time is measured in hours and hundredths of hours rounded to the nearest tenth of an hour.
- Because this should be a highly automated process, the accumulation of elapsed time continues through off-schedule, weekends and holidays; however, scheduled maintenance windows are excluded.

#### Calculation

**Update Interval = (a - b)**

- a = Completion Date & Time of Database Update
- b = Submission Date and Time of Database Change

**Average Update Interval = (c ÷ d)**

- c = Sum of all Update Intervals
- d = Total Number of Updates Completed During Reporting Period



**Report Structure**

- CLEC Specific (Under development)
- CLEC Aggregate
- BellSouth Aggregate

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Database File Submission Time</li> <li>• Database File Update Completion Time</li> <li>• CLEC Number of Submissions</li> <li>• Total Number of Updates</li> </ul>	<ul style="list-style-type: none"> <li>• Database File Submission Time</li> <li>• Database File Update Completion Time</li> <li>• BellSouth Number of Submissions</li> <li>• Total Number of Updates</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation:	Retail Analog/Benchmark:
Database Type <ul style="list-style-type: none"> <li>• LIDB</li> <li>• Directory Listings</li> <li>• Directory Assistance</li> </ul>	<ul style="list-style-type: none"> <li>• Parity by Design</li> </ul>

**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

## D-2: Percent Database Update Accuracy

### Definition

This report measures the accuracy of database updates by BellSouth for Line Information Database (LIDB), Directory Assistance, and Directory Listings using a statistically valid sample of LSRs/Orders in a manual review. This manual review is not conducted on BellSouth Retail Orders.

### Exclusions

- Updates canceled by the CLEC
- Initial update when supplemented by CLEC
- CLEC orders that had CLEC errors
- BellSouth updates associated with internal or administrative use of local services.

### Business Rules

For each update completed during the reporting period, the original update that the CLEC sent to BellSouth is compared to the database following completion of the update by BellSouth. An update is "completed without error" if the database completely and accurately reflects the activity specified on the original and supplemental update (order) submitted by the CLEC. Each database (LIDB, Directory Assistance, and Directory Listings) should be separately tracked and reported.

A statistically valid sample of CLEC Orders are pulled each month. That sample will be used to test the accuracy of the database update process. This is a manual process.

### Calculation

$$\text{Percent Update Accuracy} = (a \div b) \times 100$$

- a = Number of Updates Completed Without Error
- b = Number Updates Completed

### Report Structure

- CLEC Aggregate
- CLEC Specific (not available in this report)
- BellSouth Aggregate (not available in this report)

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number (so_nbr) and PON (PON)</li> <li>• Local Service Request (LSR)</li> <li>• Order Submission Date</li> <li>• Number of Orders Reviewed</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark:
Database Type <ul style="list-style-type: none"> <li>• LIDB</li> <li>• Directory Assistance</li> <li>• Directory Listings</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Accurate</li> </ul>

**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

D-2: Percent Database Update Accuracy

## D-3: Percent NXXs and LRNs Loaded by the LERG Effective Date

### Definition

Measurement of the percent of NXX(s) and Location Routing Numbers LRN(s) loaded in end office and/or tandem switches by the Local Exchange Routing Guide (LERG) effective date when facilities are in place. BellSouth has a single provisioning process for both NXX(s) and LRN(s). In this measure, BellSouth will identify whether or not a particular NXX has been flagged as LNP capable (set triggers for dips) by the LERG effective date.

An LRN is assigned by the owner of the switch and is placed into the software translations for every switch to be used as an administrative pointer to route NXX(s) in LNP capable switches. The LRN is a result of Local Number Porting and is housed in a national database provided by the Number Portability Administration Center (NPAC). The switch owner is responsible for notifying NPAC and requesting the effective date that will be reflected in the LERG. The national database downloads routing tables into BellSouth Service Control Point (SCP) regional databases, which are queried by switches when routing ported numbers.

The basic NXX routing process includes the addition of all NXX(s) in the response translations. This addition to response translations is what supports LRN routing. Routing instructions for all NXX(s), including LRN(s), are received from the Advance Routing & Trunking System (ARTS) and all routing, including response, is established based on the information contained in the Translation Work Instructions (TWINS) document.

### Exclusions

- Activation requests where the CLEC's interconnection arrangements and facilities are not in place by the LERG effective date.
- Expedite requests

### Business Rules

Data for the initial NXX(s) and LRN(s) in a local calling area will be based on the LERG effective date or completion of the initial interconnection trunk group(s), whichever is longer. Data for additional NXX(s) in the local calling area will be based on the LERG effective date. The LERG effective date is loaded into the system at the request of the CLEC. It is contingent upon the CLEC to engineer, order, and install interconnection arrangements and facilities prior to that date.

The total Count of NXX(s) and LRN(s) that were scheduled to be loaded and those that were loaded by the LERG effective date in BellSouth switches will be captured in the Work Force Administration -Dispatch In database.

### Calculation

**Percent NXXs/LRNs Loaded and Tested Prior to the LERG Effective Date = (a ÷ b) X 100**

- a = Count of NXXs and LRNs loaded by the LERG effective date
- b = Total NXXs and LRNs scheduled to be loaded by the LERG effective date

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth (Not Applicable)

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Company Name</li> <li>• Company Code</li> <li>• NPA/NXX</li> <li>• LERG Effective Date</li> <li>• Loaded Date</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Geographic scope</li> <li>- Region</li> </ul>	<ul style="list-style-type: none"> <li>• 100% by LERG effective date</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

D-3: Percent NXXs and LRNs Loaded by the LERG Effective Date

## Section 8: E911

### E-1: Timeliness

#### Definition

Measures the percent of batch orders for E911 database updates (to CLEC resale and BellSouth retail records) processed successfully within a 24-hour period.

#### Exclusions

- Any resale order canceled by a CLEC
- Facilities-based CLEC orders

#### Business Rules

The 24-hour processing period is calculated based on the date and time processing starts on the batch orders and the date and time processing stops on the batch orders. Mechanical processing starts when SCC (the BellSouth E911 vendor) receives E911 files containing batch orders extracted from the BellSouth Service Order Control System (SOCS). Processing stops when SCC loads the individual records to the E911 database. The E911 database includes updates to the Automatic Location Identification (ALI) database. The system makes no distinction between CLEC resale records and BellSouth retail records.

#### Calculation

$$E911 \text{ Timeliness} = (a \div b) \times 100$$

- a = Number of batch orders processed within 24 hours
- b = Total number of batch orders submitted

#### Report Structure

Reported for the aggregate of CLEC resale updates and BellSouth retail updates

- State
- Region

#### Data Retained

- Report month
- Aggregate data

#### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

#### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

E-1: Timeliness

## E-2: Accuracy

### Definition

Measures the percent of E911 telephone number (TN) record updates (to CLEC resale and BellSouth retail records) processed successfully for E911 (including the Automatic Location Identification (ALI) database).

### Exclusions

- Any resale order canceled by a CLEC
- Facilities-based CLEC orders

### Business Rules

Accuracy is based on the number of records processed without error at the conclusion of the processing cycle. Mechanical processing starts when SCC (the BellSouth E911 vendor) receives E911 files containing telephone number (TN) records extracted from BellSouth's Service Order Control System (SOCS). The system makes no distinction between CLEC resale records and BellSouth retail records.

### Calculation

$$\text{E911 Accuracy} = (a \div b) \times 100$$

- a = Number of record individual updates processed with no errors
- b = Total number of individual record updates

### Report Structure

Reported for the aggregate of CLEC resale updates and BellSouth retail updates

- State
- Region

### Data Retained

- Report month
- Aggregate data

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

### SEEM Disaggregation - Analog/Benchmark

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable



### E-3: Mean Interval

#### Definition

Measures the mean interval processing of E911 batch orders (to update CLEC resale and BellSouth retail records) including processing against the Automatic Location Identification (ALI) database.

#### Exclusions

- Any resale order canceled by a CLEC
- Facilities-based CLEC orders

#### Business Rules

The processing period is calculated based on the date and time processing starts on the batch orders and the date and time processing stops on the batch orders. Data is posted in 4-hour increments up to and beyond 24 hours. The system makes no distinction between CLEC resale records and BellSouth retail records.

#### Calculation

**E911 Interval** = (a - b)

- a = Date and time of batch order completion
- b = Date and time of batch order submission

**E911 Mean Interval** = (c ÷ d)

- c = Sum of all E911 Intervals
- d = Number of batch orders completed

#### Report Structure

Reported for the aggregate of CLEC resale updates and BellSouth retail updates

- State
- Region

#### Data Retained

- Report month
- Aggregate data

#### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

#### SEEM Measure

SEEM Measure	
No	Tier I
	Tier II
	Tier III

#### SEEM Disaggregation - Analog/Benchmark

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## Section 9: Trunk Group Performance

### TGP-1: Trunk Group Performance-Aggregate

#### Definition

The Trunk Group Performance report displays, over a reporting cycle, aggregate, average trunk group blocking data for each hour of each day of the reporting cycle, for both CLEC affecting and BellSouth affecting trunk groups.

#### Exclusions

- Trunk groups for which valid data is not available for an entire study period
- Duplicate trunk group information
- Trunk groups blocked due to CLEC network/equipment failure
- Trunk groups blocked due to CLEC delayed or refused orders
- Trunk groups blocked due to unanticipated significant increases in CLEC traffic
- Final groups actually overflowing, not blocked

#### Business Rules

The purpose of the Trunk Group Performance Report is to provide trunk blocking measurements on CLEC and BellSouth trunk groups for comparison only. It is not the intent of the report that it be used for network management and/or engineering.

##### Monthly Average Blocking:

- The reporting cycle includes both business and non-business days in a calendar month.
- Monthly average blocking values are calculated for each trunk group for each of the 24 time consistent hours across a reporting cycle.

##### Aggregate Monthly Blocking:

- Used to compare aggregate blocking across trunk groups which terminate traffic at CLEC points of presence versus BellSouth switches.
- Aggregate monthly blocking data is calculated for each hour of the day across all trunk groups assigned to a category.

##### Trunk Categorization:

This report displays, over a reporting cycle, aggregate, average blocking data for each hour of a day. Therefore, for each reporting cycle, 24 blocking data points are generated for two aggregate groups of selected trunk groups. These groups are CLEC affecting and BellSouth affecting trunk groups. In order to assign trunk groups to each aggregate group, all trunk groups are first assigned to a category. A trunk group's end points and the type of traffic that is transmitted on it define a category. Selected categories of trunk groups are assigned to the aggregate groups so that trunk reports can be generated. The categories to which trunk groups have been assigned for this report are as follows.

##### CLEC Affecting Categories:

	Point A	Point B
Category 1:	BellSouth End Office	BellSouth Access Tandem
Category 3:	BellSouth End Office	CLEC Switch
Category 4:	BellSouth Local Tandem	CLEC Switch
Category 5:	BellSouth Access Tandem	CLEC Switch
Category 10:	BellSouth End Office	BellSouth Local Tandem
Category 16:	BellSouth Tandem	BellSouth Tandem

**BellSouth Affecting Categories:**

	Point A	Point B
Category 9:	BellSouth End Office	BellSouth End Office

**Calculation**

**Monthly Average Blocking:**

- For each hour of the day, each day's raw data are summed across all valid measurements days in a report cycle for blocked and attempted calls.
- The sum of the blocked calls is divided by the total number of calls attempted in a reporting period.

**Aggregate Monthly Blocking:**

- For each hour of the day, the monthly sums of the blocked and attempted calls from each trunk group are separately aggregated over all trunk groups within each assigned category.
- The total blocked calls is divided by the total call attempts within a group to calculate an aggregate monthly blocking for each assigned group.
- The result is an aggregate monthly average blocking value for each of the 24 hours by group.
- The difference between the CLEC and BellSouth affecting trunk groups are also calculated for each hour.

**Report Structure**

- CLEC Aggregate
- BellSouth Aggregate
  - State

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Trunk Groups</li> <li>• Number of Trunk Groups by CLEC</li> <li>• Hourly blocking per trunk group</li> <li>• Hourly usage per trunk group</li> <li>• Hourly call attempts per trunk group</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Trunk Groups</li> <li>• Aggregate Hourly blocking per trunk group</li> <li>• Hourly usage per trunk group</li> <li>• Hourly call attempts per trunk group</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark:
<ul style="list-style-type: none"> <li>• CLEC aggregate</li> <li>• BellSouth aggregate</li> </ul>	<ul style="list-style-type: none"> <li>• Any 2 hour period in 24 hours where CLEC blockage exceeds BellSouth blockage by more than 0.5% using trunk groups 1, 3, 4, 5, 10, 16 for CLECs and 9 for BellSouth</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X
	Tier III	X

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark:</b>
<ul style="list-style-type: none"><li>• CLEC aggregate</li><li>• BellSouth aggregate</li></ul>	<ul style="list-style-type: none"><li>• Any 2 hour period in 24 hours where CLEC blockage exceeds BellSouth blockage by more than 0.5% using trunk groups 1,3,4,5,10,16 for CLECs and 9 for BellSouth</li></ul>

TGP-1: Trunk Group Performance-Aggregate

## TGP-2: Trunk Group Performance-CLEC Specific

### Definition

The Trunk Group Performance report displays, over a reporting cycle, aggregate, average trunk group blocking data for each hour of each day of the reporting cycle, for both CLEC affecting and BellSouth affecting trunk groups.

### Exclusions

- Trunk Groups for which valid data is not available for an entire study period
- Duplicate trunk group information
- Trunk groups blocked due to CLEC network/equipment failure
- Trunk groups blocked due to CLEC delayed or refused orders
- Trunk groups blocked due to unanticipated significant increases in CLEC traffic
- Final groups actually overflowing, not blocked

### Business Rules

The purpose of the Trunk Group Performance Report is to provide trunk blocking measurements on CLEC and BellSouth trunk groups for comparison only. It is not the intent of the report that it be used for network management and/or engineering.

#### Monthly Average Blocking:

- The reporting cycle includes both business and non-business days in a calendar month.
- Monthly average blocking values are calculated for each trunk group for each of the 24 time consistent hours across a reporting cycle.

#### Aggregate Monthly Blocking:

- Used to compare aggregate blocking across trunk groups which terminate traffic at CLEC points of presence versus BellSouth switches.
- Aggregate monthly blocking data is calculated for each hour of the day across all trunk groups assigned to a category.

#### Trunk Categorization:

- This report displays, over a reporting cycle, aggregate, average blocking data for each hour of a day. Therefore, for each reporting cycle, 24 blocking data points are generated for two aggregate groups of selected trunk groups. These groups are CLEC affecting and BellSouth affecting trunk groups. In order to assign trunk groups to each aggregate group, all trunk groups are first assigned to a category. A trunk group's end points and the type of traffic that is transmitted on it define a category. Selected categories of trunk groups are assigned to the aggregate groups so that trunk reports can be generated. The categories to which trunk groups have been assigned for this report are as follows.

#### CLEC Affecting Categories:

	Point A	Point B
Category 1:	BellSouth End Office	BellSouth Access Tandem
Category 3:	BellSouth End Office	CLEC Switch
Category 4:	BellSouth Local Tandem	CLEC Switch
Category 5:	BellSouth Access Tandem	CLEC Switch
Category 10:	BellSouth End Office	BellSouth Local Tandem
Category 16:	BellSouth Tandem	BellSouth Tandem

#### BellSouth Affecting Categories:

	Point A	Point B
Category 9:	BellSouth End Office	BellSouth End Office

### Calculation:

#### Monthly Average Blocking:

- For each hour of the day, each day's raw data are summed across all valid measurements days in a report cycle for blocked and attempted calls.
- The sum of the blocked calls is divided by the total number of calls attempted in a reporting period.

**Aggregate Monthly Blocking:**

- For each hour of the day, the monthly sums of the blocked and attempted calls from each trunk group are separately aggregated over all trunk groups within each assigned category.
- The total blocked calls is divided by the total call attempts within a group to calculate an aggregate monthly blocking for each assigned group.
- The result is an aggregate monthly average blocking value for each of the 24 hours by group.
- The difference between the CLEC and BellSouth affecting trunk groups are also calculated for each hour.

**Report Structure**

- CLEC Specific
  - State

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Trunk Groups</li> <li>• Number of Trunk Groups by CLEC</li> <li>• Hourly blocking per trunk group</li> <li>• Hourly usage per trunk group</li> <li>• Hourly call attempts per trunk group</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Trunk Groups</li> <li>• Aggregate Hourly blocking per trunk group</li> <li>• Hourly usage per trunk group</li> <li>• Hourly call attempts per trunk group</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark:
<ul style="list-style-type: none"> <li>• CLEC trunk group</li> </ul>	<ul style="list-style-type: none"> <li>• Any 2 hour period in 24 hours where CLEC blockage exceeds BellSouth blockage by more than 0.5% using trunk groups 1, 3, 4, 5, 10, 16 for CLECs and 9 for BellSouth</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark:
<ul style="list-style-type: none"> <li>• CLEC trunk group</li> <li>• BellSouth trunk group</li> </ul>	<ul style="list-style-type: none"> <li>• Any 2 hour period in 24 hours where CLEC blockage exceeds BellSouth blockage by more than 0.5% using trunk groups 1, 3, 4, 5, 10, 16 for CLECs and 9 for BellSouth</li> </ul>

## Section 10: Collocation

### C-1: Collocation Average Response Time

#### Definition

Measures the average time (counted in calendar days) from the receipt of a complete and accurate collocation application (including receipt of application fee if required) to the date BellSouth returns a response electronically or in writing. Within 10 calendar days after having received a bona fide application for physical collocation, BellSouth must respond as to whether space is available or not.

#### Exclusions

Any application canceled by the CLEC

#### Business Rules

The clock starts on the date that BellSouth receives a complete and accurate collocation application accompanied by the appropriate application fee if required. The clock stops on the date that BellSouth returns a response. The clock will restart upon receipt of changes to the original application request.

#### Calculation

**Response Time** = (a - b)

- a = Request Response Date
- b = Request Submission Date

**Average Response Time** = (c ÷ d)

- c = Sum of all Response Times
- d = Count of Responses Returned within Reporting Period

#### Report Structure

- Individual CLEC (alias) aggregate
- Aggregate of all CLECs

#### Data Retained

- Report period
- Aggregate data

#### SQM Disaggregation - Analog/Benchmark

Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• State</li> <li>• Virtual-Initial</li> <li>• Virtual-Augment</li> <li>• Physical Caged-Initial</li> <li>• Physical Caged-Augment</li> <li>• Physical-Cageless-Initial</li> <li>• Physical Cageless-Augment</li> </ul>	<ul style="list-style-type: none"> <li>• Virtual - 20 Calendar Days</li> <li>• Physical Caged - 30 Calendar Days</li> <li>• Physical Cageless - 30 Calendar Days</li> </ul>





**SEEM Measure**

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

C-1: Collocation Average Response Time

## C-2: Collocation Average Arrangement Time

### Definition

Measures the average time (counted in calendar days) from receipt of a complete and accurate Bona Fide firm order (including receipt of appropriate fee if required) to the date BellSouth completes the collocation arrangement and notifies the CLEC.

### Exclusions

- Any Bona Fide firm order canceled by the CLEC
- Any Bona Fide firm order with a CLEC-negotiated interval longer than the benchmark interval.

### Business Rules

The clock starts on the date that BellSouth receives a complete and accurate Bone Fide firm order accompanied by the appropriate fee. The clock stops on the date that BellSouth completes the collocation arrangement and notifies the CLEC.

### Calculation

**Arrangement Time** = (a - b)

- a = Date Collocation Arrangement is Complete
- b = Date Order for Collocation Arrangement Submitted

**Average Arrangement Time** = (c ÷ d)

- c = Sum of all Arrangement Times
- d = Total Number of Collocation Arrangements Completed during Reporting Period.

### Report Structure

- Individual CLEC (alias) aggregate
- Aggregate of all CLECs

### Data Retained

- Report period
- Aggregate data

### SQM Disaggregation - Retail Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• State</li> <li>• Virtual-Initial</li> <li>• Virtual-Augment</li> <li>• Physical Caged-Initial</li> <li>• Physical Caged-Augment</li> <li>• Physical Cageless-Initial</li> <li>• Physical Cageless-Augment</li> </ul>	<ul style="list-style-type: none"> <li>• Virtual - 50 Calendar Days (Ordinary)</li> <li>• Virtual - 75 Calendar Days (Extraordinary)</li> <li>• Physical Caged - 90 Calendar Days</li> <li>• Physical Cageless - 60 Calendar Days (Ordinary)</li> <li>• Physical Cageless - 90 Calendar Days (Extraordinary)</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark:</b>
• Not Applicable	• Not Applicable

C-2: Collocation Average Arrangement Time

### C-3: Collocation Percent of Due Dates Missed

**Definition**

Measures the percent of missed due dates for both virtual and physical collocation arrangements.

**Exclusions**

Any Bona Fide firm order canceled by the CLEC

**Business Rules**

Percent Due Dates Missed is the percent of total collocation arrangements which BellSouth is unable to complete by end of the BellSouth committed due date. The clock starts on the date that BellSouth receives a complete and accurate Bona Fide firm order accompanied by the appropriate fee if required. The arrangement is considered a missed due date if it is not completed on or before the committed due date.

**Calculation**

$$\% \text{ of Due Dates Missed} = (a \div b) \times 100$$

- a = Number of Completed Orders that were not completed within BellSouth Committed Due Date during Reporting Period
- b = Number of Orders Completed in Reporting Period

**Report Structure**

- Individual CLEC (alias) aggregate
- Aggregate of all CLECs

**Data Retained**

- Report period
- Aggregate data

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• State</li> <li>• Virtual-Initial</li> <li>• Virtual-Augment</li> <li>• Physical Caged-Initial</li> <li>• Physical Caged-Augment</li> <li>• Physical Cageless-Initial</li> <li>• Physical Cageless-Augment</li> </ul>	<ul style="list-style-type: none"> <li>• <math>\geq 95\%</math> on time</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X
	Tier III	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• All Collocation Arrangements</li> </ul>	<ul style="list-style-type: none"> <li>• <math>\geq 95\%</math> on time.</li> </ul>

## Section 11: Change Management

### CM-1: Timeliness of Change Management Notices

#### Definition

Measures whether CLECs receive required software release notices on time to prepare for BellSouth interface/system changes so CLEC interfaces are not impaired by change.

#### Exclusions

- Changes to release dates for reasons outside BellSouth control, such as the system software vendor changes. For example: a patch to fix a software problem.
- Type 6 Change Requests (Defects/Expedites), as defined by the Change Control Process (CCP)

#### Business Rules

This metric is designed to measure the percent of change management notices sent to the CLECs according to notification standards and time frames set forth in the Change Control Process. The CCP is used by BellSouth and the CLECs to manage requested changes to the BellSouth Local Interfaces.

The clock starts on the notification date. The clock stops on the software release date. When project events occur (scope changes, analysis information, etc.), the software release date may change. A revised notification would be required and the clock would restart. Based on release constraints for defects/expedites, notification may be less than the agreed upon interval in the CCP for new features.

#### Calculation

**Timeliness of Change Management Notices** =  $(a \div b) \times 100$

- a = Total number of Change Management Notifications Sent Within Required Time frames
- b = Total Number of Change Management Notifications Sent

#### Report Structure

- BellSouth Aggregate

#### Data Retained

- Report Period
- Notice Date
- Release Date

#### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark:
• Region	• 95% ≥ 30 days of Release

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X
	Tier III	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Region	• 95% ≥ 30 days of Release

## CM-2: Change Management Notice Average Delay Days

### Definition

Measures the average delay days for change management system release notices sent outside the time frame set forth in the Change Control Process.

### Exclusions

- Changes to release dates for reasons outside BellSouth control, such as the system software vendor changes. For example: a patch to fix a software problem.
- Type 6 Change Requests (Defects/Expedites), as defined by the Change Control Process

### Business Rules

This metric is designed to measure the percent of change management notices sent to the CLECs according to notification standards and time frames set forth in the Change Control Process. The CCP is used by BellSouth and the CLECs to manage requested changes to the BellSouth Local Interfaces.

The clock starts on the notification due date. The clock stops on the software release date. When project events occur (scope changes, analysis information, etc.), the software release date may change. A revised notification would be required and the clock would restart. Based on release constraints for defects/expedites, notification may be less than the agreed upon interval in the CCP for new features.

### Calculation

**Change Management Notice Delay Days = (a - b)**

- a = Date Notice Sent
- b = Date Notice Due

**Change Management Notice Average Delay Days = (c ÷ d)**

- c = Sum of all Change Management Notice Delay Days
- d = Total Number of Notices Sent Late

### Report Structure

- BellSouth Aggregate

### Data Retained

- Report Period
- Notice Date
- Release Date

### SQM Disaggregation - Analog/Benchmark

<b>SQM Level of Disaggregation:</b>	<b>Retail Analog/Benchmark:</b>
• Region	• ≤ 8 Days

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

CM-2: Change Management Notice Average Delay Days



## CM-3: Timeliness of Documents Associated with Change

### Definition

Measures whether CLECs received requirements or business rule documentation on time to prepare for BellSouth interface/system changes so CLEC interfaces are not impaired by change.

### Exclusions

- Documentation for release dates that slip less than 30 days for reasons outside BellSouth control, such as changes due to Regulatory mandate or CLEC request.
- Type 6 Change Requests (Defects/Expedites), as defined by the Change Control Process.

### Business Rules

This metric is designed to measure the percent of requirements or business rule documentation sent to the CLECs according to documentation standards and time frames set forth in the Change Control Process. The CCP is used by BellSouth and the CLECs to manage requested changes to the BellSouth Local Interfaces.

The clock starts on the business rule documentation release date. The clock stops on the software release date. When project events occur (scope changes, analysis information, etc.), the software release date may change. Revisions to documentation could be required and the clock would restart.

### Calculation

**Timeliness of Documents Associated with Change** =  $(a \div b) \times 100$

- a = Change Management Documentation Sent Within Required Time frames after Notices
- b = Total Number of Change Management Documentation Sent

### Report Structure

- BellSouth Aggregate

### Data Retained

- Report Period
- Notice Date
- Release Date

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
• Region	<ul style="list-style-type: none"> <li>• 95% ≥ 30 days if new features coding is required</li> <li>• 95% ≥ 5 days for documentation defects, corrections or clarifications</li> </ul>

### SEEM Measure

SEEM Measure		
Yes	Tier I	
	Tier II	X
	Tier III	X

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Region	• 95% $\geq$ 30 days of the change

## CM-4: Change Management Documentation Average Delay Days

### Definition

Measures the average delay days for requirements or business rule documentation sent outside the time frames set forth in the Change Control Process.

### Exclusions

- Documentation for release dates that slip less than 30 days for reasons outside BellSouth control, such as changes due to Regulatory mandate or CLEC request.
- Type 6 Change Requests (Defects/Expedites), as defined by the Change Control Process.

### Business Rules

This metric is designed to measure the percent of requirements or business rule documentation sent to the CLECs according to documentation standards and time frames set forth in the Change Control Process. The CCP is used by BellSouth and the CLECs to manage requested changes to the BellSouth Local Interfaces.

The clock starts on the business rule documentation release date. The clock stops on the software release date. When project events occur (scope changes, analysis information, etc.), the software release date may change. Revisions to documentation could be required and the clock would restart.

### Calculation

**Change Management Documentation Delay Days = (a - b)**

- a = Date Documentation Provided
- b = Date Documentation Due

**Change Management Documentation Average Delay Days = (c ÷ d)**

- c = Sum of all CM Documentation Delay Days
- d = Total Change Management Documents Sent

### Report Structure

- BellSouth Aggregate

### Data Retained

- Report Period
- Notice Date
- Release Date

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark:
• Region	• ≤ 8 Days

### SEEM Measure

SEEM Measure	
No	Tier I
	Tier II
	Tier III

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

## CM-5: Notification of CLEC Interface Outages

### Definition

Measures the time it takes BellSouth to notify the CLEC of an outage of an interface.

### Exclusions

None

### Business Rules

This measure is designed to notify the CLEC of interface outages within 15 minutes of BellSouth's verification that an outage has taken place. This metric will be expressed as a percentage.

### Calculation

Notification of CLEC Interface Outages =  $(a \div b) \times 100$

- a = Number of Interface Outages where CLECS are notified within 15 minutes
- b = Total Number of Interface Outages

### Report Structure

- CLEC Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Number of Interface Outages</li> <li>• Number of Notifications <math>\leq</math> 15 minutes</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• By interface type for all interfaces accessed by CLECs</li> </ul>	<ul style="list-style-type: none"> <li>• 97% in 15 Minutes</li> </ul>

Interface	Applicable to
EDI	CLEC
CSOTS	CLEC
LENS	CLEC
TAG	CLEC
ECTA	CLEC
TAFI	CLEC/BellSouth

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

## Section 12: Bona Fide / New Business Request Process

### BFR-1: Percentage of BFR/NBR Requests Processed Within 30 Business Days

#### Definition

Percentage of Bona Fide/New Business Requests processed within 30 business days for the development and purchases of network elements not currently offered.

#### Exclusions

Any application cancelled by the CLEC

#### Business Rules

The clock starts when BellSouth receives a complete and accurate application. The clock stops when BellSouth completes application processing for Network Elements that are not operational at the time of the request.

#### Calculation

**Percentage of BFR/NBR Requests Processed Within 30 Business Days** =  $(a + b) \times 100$

- a = Count of number of requests processed within 30 days
- b = Total number of requests

#### Report Structure

- Individual CLEC (alias) aggregate
- Aggregate of all CLECs

#### Data Retained

- Report period
- Aggregate data

#### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
• Region	• 90% ≤ 30 business days

#### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

**BFR-1: Percentage of BFR/NBR Requests Processed Within 30 Business Days**



**BFR-2: Percentage of Quotes Provided for Authorized BFR/NBR Requests Processed Within X (10/30/60) Business Days**

BFR-2: Percentage of Quotes Provided for Authorized BFR/NBR Requests Processed Within X (10/30/60) Business Days

**Definition**

Percentage of quotes provided in response to Bona Fide/New Business Requests within X (10/30/60) business days for network elements not currently offered.

**Exclusions**

Requests that are subject to pending arbitration

**Business Rules**

The clock starts when BellSouth receives a complete and accurate application. The clock stops when BellSouth responds back to the application with a price quote.

**Calculation**

**Percentage of Quotes Provided for Authorized BFR/NBR Requests Processed Within X (10/30/60) Business Days = (a ÷ b) X 100**

- a = Count of number of requests processed within "X" days
- b = Total number of requests  
where "X" = 10, 30, or 60 days

**Report Structure**

- New Network Elements that are operational at the time of the request.
- New Network Elements that are ordered by the FCC.
- New Network Elements that are not operational at the time of the request.

**Data Retained**

- Report period
- Aggregate data

**SQM Level of Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Region</li> </ul>	<ul style="list-style-type: none"> <li>• 90% ≤ 10/30/60 business days</li> <li>- Network Elements that are operational at the time of the request – 10 days</li> <li>- Network Elements that are Ordered by the FCC – 30 days</li> <li>- New Network Elements – 90 days</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	
	Tier III	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

BFR-2: Percentage of Quotes Provided for Authorized BFR/NBR Requests Processed Within X (10/30/60) Business Days

## Appendix A: Reporting Scope

### A-1: Standard Service Groupings

See individual reports in the body of the SQM.

### A-2: Standard Service Order Activities

These are the generic BellSouth/CLEC service order activities which are included in the Pre-Ordering, Ordering, and Provisioning sections of this document. It is not meant to indicate specific reporting categories.

#### Service Order Activity Types

- Service Migrations Without Changes
- Service Migrations With Changes
- Move and Change Activities
- Service Disconnects (Unless noted otherwise)
- New Service Installations

#### Pre-Ordering Query Types

- Address
- Telephone Number
- Appointment Scheduling
- Customer Service Record
- Feature Availability
- Service Inquiry

#### Maintenance Query Types:

TAFI - TAFI queries the systems below

- CRIS
- March
- Predictor
- LMOS
  - DLR
  - DLETH
  - LMOSupd
- LNP
- NIW
- OSPCM
- SOCS

#### Report Levels

- CLEC RESH
- CLEC State
- CLEC Region
- Aggregate CLEC State



- Aggregate CLEC Region
- BellSouth State
- BellSouth Region

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## Appendix B: Glossary of Acronyms and Terms

### Symbols used in calculations

- Σ A mathematical symbol representing the sum of a series of values following the symbol.
- A mathematical operator representing subtraction.
- + A mathematical operator representing addition.
- ÷ A mathematical operator representing division.
- ( ) Parentheses, used to group mathematical operations which are completed before operations outside the parentheses.

### A

**ACD:** Automatic Call Distributor - A service that provides status monitoring of agents in a call center and routes high volume incoming telephone calls to available agents while collecting management information on both callers and attendants.

**Aggregate:** Sum total of all items in like category, e.g. CLEC aggregate equals the sum total of all CLECs' data for a given reporting level.

**ALEC:** Alternative Local Exchange Company = FL CLEC

**ADSL:** Asymmetrical Digital Subscriber Line

**ASR:** Access Service Request - A request for access service terminating delivery of carrier traffic into a Local Exchange Carrier's network.

**ATLAS:** Application for Telephone Number Load Administration System - The BellSouth Operations System used to administer the pool of available telephone numbers and to reserve selected numbers from the pool for use on pending service requests/service orders.

**ATLASTN:** ATLAS software contract for Telephone Number.

**Auto Clarification:** The number of LSRs that were electronically rejected from LESOG and electronically returned to the CLEC for correction.

### B

**BFR:** Bona Fide Request

**BILLING:** The process and functions by which billing data is collected and by which account information is processed in order to render accurate and timely billing.

**BOCRIS:** Business Office Customer Record Information System (Front-end to the CRIS database.)

**BRI:** Basic Rate ISDN

**BRC:** Business Repair Center – The BellSouth Business Systems trouble receipt center which serves business and CLEC customers.

**BellSouth :** BellSouth Telecommunications, Inc.

## C

**CABS:** Carrier Access Billing System

**CCC:** Coordinated Customer Conversions

**CCP:** Change Control Process

**Centrex:** A business telephone service, offered by local exchange carriers, which is similar to a Private Branch Exchange (PBX) but the switching equipment is located in the telephone company Central Office (CO).

**CKTID:** A unique identifier for elements combined in a service configuration

**CLEC:** Competitive Local Exchange Carrier

**CLP:** Competitive Local Provider = NC CLEC

**CM:** Change Management

**CMDS:** Centralized Message Distribution System - Telcordia administered national system used to transfer specially formatted messages among companies.

**COFFI:** Central Office Feature File Interface - Provides information about USOCs and class of service. COFFI is a part of DOE/SONGS. It indicates all services available to a customer.

**COG:** Corporate Gateway - Telcordia product designed for the electronic submission of xDSL Local Service Requests.

**CRIS:** Customer Record Information System - The BellSouth proprietary corporate database and billing system for non-access customers and services.

**CRSACCTS:** CRIS software contract for CSR information

**CRSG:** Complex Resale Support Group

**C-SOTS:** CLEC Service Order Tracking System

**CSR:** Customer Service Record

**CTTG:** Common Transport Trunk Group - Final trunk groups between BellSouth & Independent end offices and the BellSouth access tandems.

## D

**DA:** Directory Assistance

**DESIGN:** Design Service is defined as any Special or Plain Old Telephone Service Order which requires BellSouth Design Engineering Activities.

**DISPOSITION & CAUSE:** Types of trouble conditions, e.g. No Trouble Found, Central Office Equipment, Customer Premises Equipment, etc.

**DLETH:** Display Lengthy Trouble History - A history report that gives all activity on a line record for trouble reports in LMOS.

**DLR:** Detail Line Record - All the basic information maintained on a line record in LMOS. e.g. name, address, facilities, features etc.

**DS-0:** The worldwide standard speed for one digital voice signal (64000 bps).

**DS-1:** 24 DS-0s (1.544Mb/sec., i.e. carrier systems)

**DOE:** Direct Order Entry System - An internal BellSouth service order entry system used by BellSouth Service Representatives to input business service orders in BellSouth format.

**DOM:** Delivery Order Manager - Telcordia product designed for the electronic submission of xDSL Local Service Requests.

**DSAP:** DOE (Direct Order Entry) Support Application - The BellSouth Operations System which assists a Service Representative or similar carrier agent in negotiating service provisioning commitments for non-designed services and Unbundled Network Elements.

**DSAPDDI:** DSAP software contract for schedule information.

**DSL:** Digital Subscriber Line

**DUI:** Database Update Information

## E

**E911:** Provides callers access to the applicable emergency services bureau by dialing a 3-digit universal telephone number.

**EDI:** Electronic Data Interchange - The computer-to-computer exchange of inter and/or intra-company business documents in a public standard format.

**ESSX:** BellSouth Centrex Service

## F

**Fatal Reject:** LSRs electronically rejected from LEO, which checks to see if the LSR has all the required fields correctly populated.

**Flow-Through:** In the context of this document, LSRs submitted electronically via the CLEC mechanized ordering process that flow through to the BellSouth OSS without manual or human intervention.

**FOC:** Firm Order Confirmation - A notification returned to the CLEC confirming that the LSR has been received and accepted, including the specified commitment date.

**FX:** Foreign Exchange

**G****H**

**HAL:** "Hands Off" Assignment Logic - Front end access and error resolution logic used in interfacing BellSouth Operations Systems such as ATLAS, BOCRIS, LMOS, PSIMS, RSAG and SOCS.

**HALCRIS:** HAL software contract for CSR information

**HDSL:** High Density Subscriber Loop/Line

**I**

**ILEC:** Incumbent Local Exchange Company

**INP:** Interim Number Portability

**ISDN:** Integrated Services Digital Network

**IPC:** Interconnection Purchasing Center

**L**

**LAN:** Local Area Network

**LAUTO:** The automatic processor in the LNP Gateway that validates LSRs and issues service orders.

**LCSC:** Local Carrier Service Center - The BellSouth center which is dedicated to handling CLEC LSRs, ASRs, and Pre-ordering transactions along with associated expedite requests and escalations.

**Legacy System:** Term used to refer to BellSouth Operations Support Systems (see OSS)

**LENS:** Local Exchange Negotiation System - The BellSouth LAN/web server/OS application developed to provide both preordering and ordering electronic interface functions for CLECs.

**LEO:** Local Exchange Ordering - A BellSouth system which accepts the output of EDI, applies edit and formatting checks, and reformats the Local Service Requests in BellSouth Service Order format.

**LERG:** Local Exchange Routing Guide

**LESOG:** Local Exchange Service Order Generator - A BellSouth system which accepts the service order output of LEO and enters the Service Order into the Service Order Control System using terminal emulation technology.

**LFACS:** Loop Facilities Assessment and Control System

**LIDB:** Line Information Database

**LISC:** Local Interconnection Service Center - The center that issues trunk orders.

**LMOS:** Loop Maintenance Operations System - A BellSouth Operations System that stores the assignment and selected account information for use by downstream OSS and BellSouth personnel during provisioning and maintenance activities.



**LMOS HOST:** LMOS host computer

**LMOSupd:** LMOS updates

**LMU:** Loop Make-up

**LMUS:** Loop Make-up Service Inquiry

**LNP:** Local Number Portability - In the context of this document, the capability for a subscriber to retain his current telephone number as he transfers to a different local service provider.

**LOOPS :** Transmission paths from the central office to the customer premises.

**LRN:** Location Routing Number

**LSR:** Local Service Request – A request for local resale service or unbundled network elements from a CLEC.

## **M**

**Maintenance & Repair:** The process and function by which trouble reports are passed to BellSouth and by which the related service problems are resolved.

**MARCH:** BellSouth Operations System which accepts service orders, interprets the coding contained in the service order image, and constructs the specific switching system Recent Change command messages for input into end office switches.

## **N**

**NBR:** New Business Request

**NC:** "No Circuits" - All circuits busy announcement.

**NIW:** Network Information Warehouse

**NMLI:** Native Mode LAN Interconnection

**NPA:** Numbering Plan Area

**NXX:** The "exchange" portion of a telephone number.

## **O**

**OASIS:** Obtain Availability Services Information System - A BellSouth front-end processor, which acts as an interface between COFFI and RNS. This system takes the USOCs in COFFI and translates them to English for display in RNS.

**OASISBSN:** OASIS software contract for feature/service

**OASISCAR:** OASIS software contract for feature/service

**OASISLPC:** OASIS software contract for feature/service

**OASISMTN:** OASIS software contract for feature/service

**OASISNET:** OASIS software contract for feature/service

**OASISOCP:** OASIS software contract for feature/service

**ORDERING:** The process and functions by which resale services or unbundled network elements are ordered from BellSouth as well as the process by which an LSR or ASR is placed with BellSouth.

**OSPCM:** Outside Plant Contract Management System - Provides Scheduling Information.

**OSS:** Operations Support System - A support system or database which is used to mechanize the flow or performance of work. The term is used to refer to the overall system consisting of hardware complex, computer operating system(s), and application which is used to provide the support functions.

**OUT OF SERVICE:** Customer has no dial tone and cannot call out.

## P

**PMAP:** Performance Measurement Analysis Platform

**PMQAP:** Performance Measurement Quality Assurance Plan

**PON:** Purchase Order Number

**POTS:** Plain Old Telephone Service

**PREDICTOR:** The BellSouth Operations system which is used to administer proactive maintenance and rehabilitation activities on outside plant facilities, provide access to selected work groups (e.g. RRC & BRC) to Mechanized Loop Testing and switching system I/O ports, and provide certain information regarding the attributes and capabilities of outside plant facilities.

**Preordering:** The process and functions by which vital information is obtained, verified, or validated prior to placing a service request.

**PRI:** Primary Rate ISDN

**Provisioning:** The process and functions by which necessary work is performed to activate a service requested via an LSR or ASR and to initiate the proper billing and accounting functions.

**PSIMS:** Product/Service Inventory Management System - A BellSouth database Operations System which contains availability information on switching system features and capabilities and on BellSouth service availability. This database is used to verify the availability of a feature or service in an NXX prior to making a commitment to the customer.

**PSIMSORB:** PSIMS software contract for feature/service.

## Q

## R

**RNS:** Regional Negotiation System - An internal BellSouth service order entry system used by BellSouth Consumer Services to input service orders in BellSouth format.

**ROS:** Regional Ordering System

**RRC:** Residence Repair Center - The BellSouth Consumer Services trouble receipt center which serves residential customers.

**RSAG:** Regional Street Address Guide - The BellSouth database, which contains street addresses validated to be accurate with state and local governments.

**RSAGADDR:** RSAG software contract for address search.

**RSAGTN:** RSAG software contract for telephone number search.

## S

**SAC:** Service Advocacy Center

**SEEM:** Self Effectuating Enforcement Mechanism

**SOCS:** Service Order Control System - The BellSouth Operations System which routes service order images among BellSouth drop points and BellSouth Operations Systems during the service provisioning process.

**SOG:** Service Order Generator - Telcordia product designed to generate a service order for xDSL.

**SOIR:** Service Order Interface Record - any change effecting activity to a customer account by service order that impacts 911/E911

**SONGS:** Service Order Negotiation and Generation System.

## T

**TAFI:** Trouble Analysis Facilitation Interface - The BellSouth Operations System that supports trouble receipt center personnel in taking and handling customer trouble reports.

**TAG:** Telecommunications Access Gateway – TAG was designed to provide an electronic interface, or machine-to-machine interface for the bi-directional flow of information between BellSouth's OSSs and participating CLECs.

**TN:** Telephone Number

**Total Manual Fallout:** The number of LSRs which are entered electronically but require manual entering into a service order generator.

## U

**UNE:** Unbundled Network Element

**UCL:** Unbundled Copper Link

**USOC:** Universal Service Order Code

## V

## W

**WATS:** Wide Area Telephone Service

**WFA:** Work Force Administration

**WMC:** Work Management Center

**WTN:** Working Telephone Number.



X

Y

Z

## Appendix C: BellSouth Audit Policy

BellSouth currently provides many CLECs with certain audit rights as a part of their individual interconnection agreements. However, it is not reasonable for BellSouth to undergo an audit of the SQM for every CLEC with which it has a contract. BellSouth has developed a proposed Audit Plan for use by the parties to an audit. If requested by a Public Service Commission or by a CLEC exercising contractual audit rights, BellSouth will agree to undergo a comprehensive audit of the aggregate level reports for both BellSouth and the CLEC(s) each of the next five (5) years (2001-2005) to be conducted by an independent third party. The results of that audit will be made available to all the parties subject to proper safeguards to protect proprietary information. This aggregate level audit includes the following specifications:

1. The cost shall be borne 50% by BellSouth and 50% by the CLEC or CLECs.
2. The independent third party auditor shall be selected with input from BellSouth, the PSC, if applicable, and the CLEC(s).
3. BellSouth, the PSC and the CLEC(s) shall jointly determine the scope of the audit.

BellSouth reserves the right to make changes to this audit policy as growth and changes in the industry dictate.



## **EXHIBIT AJV-2**

**BellSouth Service Quality Measurement Plan  
(Permanent)**

# **BellSouth Service Quality Measurement Plan (SQM)**

**Kentucky Performance Metrics**

**Measurement Descriptions  
Version 0.01**

**Issue Date: May 18, 2001**



## Introduction

The BellSouth Service Quality Measurement Plan (SQM) describes in detail the measurements produced to evaluate the quality of service delivered to BellSouth's customers both wholesale and retail. The SQM was developed to respond to the requirements of the Communications Act of 1996 Section 251 (96 Act) which required BellSouth to provide non-discriminatory access to Competitive Local Exchange Carriers (CLEC)<sup>1</sup> and their Retail Customers. The reports produced by the SQM provide regulators, CLECs and BellSouth the information necessary to monitor the delivery of non-discriminatory access.

This plan results from the many divergent forces evolving from the 96 Act. The 96 Act, the Georgia Public Service Commission (GPSC) Order (Orders of 12/30/97 and 1/12/01 in Docket 7892-U), LCUG 1-7.0, the FCC's NPRM (CC Docket 98-56 RM9101 04/17/98), the Louisiana Public Service Commission (LPSC) Order (Docket U-22252 Subdocket C 04/19/98), numerous arbitration cases, LPSC sponsored collaborative workshops (10/98-02/00), and proceedings in Alabama, Mississippi, and North Carolina have influenced and continue to influence the SQM.

The SQM and the reports flowing from it must change to reflect the dynamic requirements of the industry. New measurements are added as new products, systems, and processes are developed and fielded. New products and services are added as the markets for them develop and the processes stabilize. The measurements are also changed to reflect changes in systems, correct errors, and respond to both 3<sup>rd</sup> Party audit requirements and regulatory requirements.

This document is intended for use by someone with knowledge of telecommunications industry, information technologies and a functional knowledge of the subject areas covered by the BellSouth Performance Measurements and the reports that flow from them.

Once it is approved, the most current copy of this document can be found on the web at URL: <https://pmap.bellsouth.com> in the Help folder.

## Report Publication Dates

Each month, reports will be posted to BellSouth's SQM web site ([www.pmap.bellsouth.com](http://www.pmap.bellsouth.com)). Final validated SQM reports will be posted by 8:00 A.M. on the last day of the month.

## Report Delivery Methods

CLEC SQM and SEEM reports will be considered delivered when posted to the web site. The Kentucky Public Service Commission (KY PSC) will be given access to the web site. In addition, a copy of the Monthly State Summary reports will be filed with the KY PSC as soon as possible after the last day of each month.

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*1. Alternative Local Exchange Companies (ALEC) and Competing Local Providers (CLP) are referred to as Competitive Local Exchange Carriers (CLEC) in this document.*

## Contents

### Section 1: Operations Support Systems (OSS)

OSS-1: Average Response Time and Response Interval (Pre-Ordering/Ordering) - - - - -	1-1
OSS-2: Interface Availability (Pre-Ordering/Ordering) - - - - -	1-6
OSS-3: Interface Availability (Maintenance & Repair) - - - - -	1-9
OSS-4: Response Interval (Maintenance & Repair) - - - - -	1-11
PO-1: Loop Makeup - Response Time – Manual - - - - -	1-13
PO-2: Loop Make Up - Response Time - Electronic - - - - -	1-15

### Section 2: Ordering

O-1: Acknowledgement Message Timeliness - - - - -	2-1
O-2: Acknowledgement Message Completeness - - - - -	2-3
O-3: Percent Flow-Through Service Requests (Summary) - - - - -	2-5
O-4: Percent Flow-Through Service Requests (Detail) - - - - -	2-8
O-5: Flow-Through Error Analysis - - - - -	2-11
O-6: CLEC LSR Information - - - - -	2-13
LSR Flow-Through Matrix - - - - -	2-15
O-7: Percent Rejected Service Requests - - - - -	2-18
O-8: Reject Interval - - - - -	2-20
O-9: Firm Order Confirmation Timeliness - - - - -	2-23
O-10: Service Inquiry with LSR Firm Order Confirmation (FOC) Response Time Manual - - - - -	2-26
O-11: Firm Order Confirmation and Reject Response Completeness - - - - -	2-28
O-12: Speed of Answer in Ordering Center - - - - -	2-30

### Section 3: Provisioning

P-1: Mean Held Order Interval & Distribution Intervals - - - - -	3-1
P-2: Average Jeopardy Notice Interval & Percentage of Orders Given Jeopardy Notices - - - - -	3-4
P-3: Percent Missed Installation Appointments - - - - -	3-7
P-4: Average Completion Interval (OCI) & Order Completion Interval Distribution - - - - -	3-10
P-5: Average Completion Notice Interval - - - - -	3-13
P-6: Coordinated Customer Conversions Interval - - - - -	3-16
P-6A: Coordinated Customer Conversions – Hot Cut Timeliness% Within Interval and Average Interval - - - - -	3-18
P-6B: Coordinated Customer Conversions – Average Recovery Time - - - - -	3-20
P-6C: Hot Cut Conversions - % Provisioning Troubles Received Within 7 days of a completed Service Order - - - - -	3-22
P-7: Cooperative Acceptance Testing - % of xDSL Loops Tested - - - - -	3-24
P-8: % Provisioning Troubles within 30 days of Service Order Completion - - - - -	3-26
P-9: Total Service Order Cycle Time (TSOCT) - - - - -	3-28
P-10: LNP-Average Disconnect Timeliness Interval & Disconnect Timeliness Interval Distribution - - - - -	3-30

### Section 4: Maintenance & Repair

M&R-1: Missed Repair Appointments - - - - -	4-1
M&R-2: Customer Trouble Report Rate - - - - -	4-3
M&R-3: Maintenance Average Duration - - - - -	4-5
M&R-4: Percent Repeat Troubles within 30 Days - - - - -	4-7
M&R-5: Out of Service (OOS) > 24 Hours - - - - -	4-9
M&R-6: Average Answer Time – Repair Centers - - - - -	4-11

M&R-7: Mean Time To Notify CLEC of Network Outages----- 4-12

**Section 5: Billing**

B-1: Invoice Accuracy----- 5-1  
 B2: Mean Time to Deliver Invoices----- 5-3  
 B3: Usage Data Delivery Accuracy----- 5-5  
 B4: Usage Data Delivery Completeness----- 5-7  
 B5: Usage Data Delivery Timeliness----- 5-9  
 B6: Mean Time to Deliver Usage----- 5-11  
 B7: Recurring Charge Completeness----- 5-13  
 B8: Non-Recurring Charge Completeness----- 5-14

**Section 6: Operator Services And Directory Assistance**

OS-1: Speed to Answer Performance/Average Speed to Answer - Toll----- 6-1  
 OS-2: Speed to Answer Performance/Percent Answered with "X" Seconds – Toll----- 6-3  
 DA-1: Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA)----- 6-4  
 DA-2: Speed to Answer Performance/Percent Answered within "X" Seconds – Directory Assistance (DA)----- 6-5

**Section 7: Database Update Information**

D-1: Average Database Update Interval----- 7-1  
 D-2: Percent Database Update Accuracy----- 7-3  
 D-3: Percent NXXs and LRNs Loaded by the LERG Effective Date----- 7-5

**Section 8: E911**

E-1: Timeliness----- 8-1  
 E-2: Accuracy----- 8-3  
 E-3: Mean Interval----- 8-4

**Section 9: Trunk Group Performance**

TGP-1: Trunk Group Performance-Aggregate----- 9-1  
 TGP-2: Trunk Group Performance-CLEC Specific----- 9-4

**Section 10: Collocation**

C-1: Collocation Average Response Time----- 10-1  
 C-2: Collocation Average Arrangement Time----- 10-3  
 C-3: Collocation Percent of Due Dates Missed----- 10-5

**Section 11: Change Management**

CM-1: Timeliness of Change Management Notices----- 11-1  
 CM-2: Change Management Notice Average Delay Days----- 11-3  
 CM-3: Timeliness of Documents Associated with Change----- 11-5  
 CM-4: Change Management Documentation Average Delay Days----- 11-6  
 CM-5: Notification of CLEC Interface Outages----- 11-8

**Appendix A: Reporting Scope----- A-1**

A-1: Standard Service Groupings----- A-1  
 A-2: Standard Service Order Activities----- A-1

**Appendix B: Glossary of Acronyms and Terms----- B-1**

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<b>Appendix C: BellSouth Audit Policy</b> .....	<b>C-1</b>
C-1: BellSouth's Internal Audit Policy .....	C-1
C-2: BellSouth's External Audit Policy .....	C-1

## Section 1: Operations Support Systems (OSS)

### OSS-1: Average Response Time and Response Interval (Pre-Ordering/Ordering)

#### Definition

Average response time and response intervals are the average times and number of requests responded to within certain intervals for accessing legacy data associated with appointment scheduling, service & feature availability, address verification, request for Telephone numbers (TNs), and Customer Service Records (CSRs).

#### Exclusions

None

#### Business Rules

The average response time for retrieving pre-order/order information from a given legacy system is determined by summing the response times for all requests submitted to the legacy systems during the reporting period and dividing by the total number of legacy system requests for that month.

The response interval starts when the client application (LENS or TAG for CLECs and RNS or ROS for BellSouth) submits a request to the legacy system and ends when the appropriate response is returned to the client application. The number of accesses to the legacy systems during the reporting period which take less than 2.3 seconds, the number of accesses which take more than 6 seconds, and the number of accesses which are less than or equal to 6.3 seconds are also captured.

#### Calculation

**Response Time** = (a - b)

- a = Date & Time of Legacy Response
- b = Date & Time of Legacy Request

**Average Response Time** = c ÷ d

- c = Sum of Response Times
- d = Number of Legacy Requests During the Reporting Period

#### Report Structure

- Not CLEC Specific
- Not Product/Service Specific
- Regional Level

#### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Legacy Contract (per reporting dimension)</li> <li>• Response Interval</li> <li>• Regional Scope</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Legacy Contract (per reporting dimension)</li> <li>• Response Interval</li> <li>• Regional Scope</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	SQM Analog/Benchmark
<ul style="list-style-type: none"> <li>• <b>RSAG – Address</b> (Regional Street Address Guide-Address) – stores street address information used to validate customer addresses. CLECs and BellSouth query this legacy system.</li> <li>• <b>RSAG – TN</b> (Regional Street Address Guide-Telephone number) – contains information about facilities available and telephone numbers working at a given address. CLECs and BellSouth query this legacy system.</li> <li>• <b>ATLAS</b> (Application for Telephone Number Load Administration and Selection) – acts as a warehouse for storing telephone numbers that are available for assignment by the system. It enables CLECs and BellSouth service reps to select and reserve telephone numbers. CLECs and BellSouth query this legacy system.</li> <li>• <b>COFFI</b> (Central Office Feature File Interface) – stores information about product and service offerings and availability. CLECs query this legacy system.</li> <li>• <b>DSAP</b> (DOE Support Application) – provides due date information. CLECs and BellSouth query this legacy system.</li> <li>• <b>HAL/CRIS</b> (Hands-Off Assignment Logic/Customer Record Information System) – a system used to access the Business Office Customer Record Information System (BOCRIS). It allows BellSouth servers, including LENS, access to legacy systems. CLECs query this legacy system.</li> <li>• <b>P/SIMS</b> (Product/Services Inventory Management system) – provides information on capacity, tariffs, inventory and service availability. CLECs query this legacy system.</li> <li>• <b>OASIS</b> (Obtain Available Services Information Systems) – Information on feature and rate availability. BellSouth queries this legacy system.</li> </ul>	<ul style="list-style-type: none"> <li>• Parity + 4 seconds</li> </ul>

OSS-1: Average Response Time and Response Interval (Pre-Ordering/Ordering)

**Table 1: Legacy System Access Times For RNS**

System	Contract	Data	< 2.3 sec.	> 6 sec.	≤ 6.3 sec.	Avg. Sec.	# of Calls
RSAG	RSAG-TN	Address	x	x	x	x	x
RSAG	RSAG-ADDR	Address	x	x	x	x	x
ATLAS	ATLAS-TN	TN	x	x	x	x	x
DSAP	DSAP	Schedule	x	x	x	x	x
CRIS	CRSACCTS	CSR	x	x	x	x	x
OASIS	OASISCAR	Feature/Service	x	x	x	x	x
OASIS	OASISLPC	Feature/Service	x	x	x	x	x
OASIS	OASISMTN	Feature/Service	x	x	x	x	x
OASIS	OASISBIG	Feature/Service	x	x	x	x	x

**Table 2: Legacy System Access Times For R0S**

System	Contract	Data	< 2.3 sec.	> 6 sec.	≤6.3 sec.	Avg. sec.	# of Calls
RSAG	RSAG-TN	Address	x	x	x	x	x
RSAG	RSAG-ADDR	Address	x	x	x	x	x
ATLAS	ATLAS-TN	TN	x	x	x	x	x

**Table 2: Legacy System Access Times For R0S**

System	Contract	Data	< 2.3 sec.	> 6 sec.	≤6.3 sec.	Avg. sec.	# of Calls
DSAP	DSAP	Schedule	x	x	x	x	x
CRIS	CRSOCSR	CSR	x	x	x	x	x
OASIS	OASISBIG	Feature/Service	x	x	x	x	x

**Table 3: Legacy System Access Times For LENS**

System	Contract	Data	< 2.3 sec.	> 6 sec.	≤6.3 sec.	Avg. sec.	# of Calls
RSAG	RSAG-TN	Address	x	x	x	x	x
RSAG	RSAG-ADDR	Address	x	x	x	x	x
ATLAS	ATLAS-TN	TN	x	x	x	x	x
DSAP	DSAP	Schedule	x	x	x	x	x
HAL	HAL/CRIS	CSR	x	x	x	x	x
COFFI	COFFI/USOC	Feature/Service	x	x	x	x	x
P/SIMS	PSIMS/ORB	Feature/Service	x	x	x	x	x

**Table 4: Legacy System Access Times For TAG**

System	Contract	Data	< 2.3 sec.	> 6 sec.	≤6.3 sec.	Avg. sec.	# of Calls
RSAG	RSAG-TN	Address	x	x	x	x	x
RSAG	RSAG-ADDR	Address	x	x	x	x	x
ATLAS	ATLAS-TN	TN	x	x	x	x	x
ATLAS	ATLAS-MLH	TN	x	x	x	x	x
ATLAS	ATLAS-DID	TN	x	x	x	x	x
DSAP	DSAP	Schedule	x	x	x	x	x
CRIS	CRSECSRL	CSR	x	x	x	x	x
CRIS	CRSECSR	CSR	x	x	x	x	x

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

Note: CLEC specific data is not available in this measure. Queries of this sort do not have company specific signatures.

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• <b>RSAG – Address</b> (Regional Street Address Guide-Address) – stores street address information used to validate customer addresses. CLECs and BellSouth query this legacy system.</li> <li>• <b>RSAG – TN</b> (Regional Street Address Guide-Telephone number) – contains information about facilities available and telephone numbers working at a given address. CLECs and BellSouth query this legacy system.</li> <li>• <b>ATLAS</b> (Application for Telephone Number Load Administration and Selection) – acts as a warehouse for storing telephone numbers that are available for assignment by the system. It enables CLECs and BellSouth service reps to select and reserve telephone numbers. CLECs and BellSouth query this legacy system.</li> <li>• <b>COFFI</b> (Central Office Feature File Interface) – stores information about product and service offerings and availability. CLECs query this legacy system.</li> <li>• <b>DSAP</b> (DOE Support Application) – provides due date information. CLECs and BellSouth query this legacy system.</li> <li>• <b>HAL/CRIS</b> (Hands-Off Assignment Logic/Customer Record Information System) – a system used to access the Business Office Customer Record Information System (BOCRIS). It allows BellSouth servers, including LENS, access to legacy systems. CLECs query this legacy system.</li> <li>• <b>P/SIMS</b> (Product/Services Inventory Management system) – provides information on capacity, tariffs, inventory and service availability. CLECs query this legacy system.</li> <li>• <b>OASIS</b> (Obtain Available Services Information Systems) – Information on feature and rate availability. BellSouth queries this legacy system.</li> </ul>	<ul style="list-style-type: none"> <li>• Parity + 4 seconds</li> </ul>

OSS-1: Average Response Time and Response Interval (Pre-Ordering/Ordering)

**SEEM OSS Legacy Systems**

System	BellSouth	CLEC
<b>Telephone Number/Address</b>		
RSAG-ADDR	RNS, ROS	TAG, LENS
RSAG-TN	RNS, ROS	TAG, LENS
ATLAS	RNS,ROS	TAG, LENS
<b>Appointment Scheduling</b>		
DSAP	RNS, ROS	TAG, LENS
<b>CSR Data</b>		
CRSACCTS	RNS	
CRSOCSR	ROS	
HAL/CRIS		LENS
CRSECSRL		TAG
CRSECSR		TAG
<b>Service/Feature Availability</b>		
OASISBIG	RNS, ROS	



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System	BellSouth	CLEC
<b>Service/Feature Availability</b>		
PSIMS/ORB		LENS

OSS-1: Average Response Time and Response Interval (Pre-Ordering/Ordering)

## OSS-2: Interface Availability (Pre-Ordering/Ordering)

### Definition

Percent of time applications are functionally available as compared to scheduled availability. Calculations are based upon availability of applications and interfacing applications utilized by CLECs for pre-ordering and ordering. "Functional Availability" is defined as the number of hours in the reporting period that the applications/interfaces are available to users. "Scheduled Availability" is defined as the number of hours in the reporting period that the applications/interfaces are scheduled to be available.

Scheduled availability is posted on the Interconnection web site: ([www.interconnection.bellsouth.com/oss/oss\\_hour.html](http://www.interconnection.bellsouth.com/oss/oss_hour.html))

### Exclusions

- CLEC-impacting troubles caused by factors outside of BellSouth's purview, e.g., troubles in customer equipment, troubles in networks owned by telecommunications companies other than BellSouth, etc.
- Degraded service, e.g., slow response time, loss of non-critical functionality, etc.

### Business Rules

This measurement captures the functional availability of applications/interfaces as a percentage of scheduled availability for the same systems. Only full outages are included in the calculations for this measure. Full outages are defined as occurrences of either of the following:

- Application/interfacing application is down or totally inoperative.
- Application is totally inoperative for customers attempting to access or use the application. This includes transport outages when they may be directly associated with a specific application.

Comparison to an internal benchmark provides a vehicle for determining whether or not CLECs and retail BST entities are given comparable opportunities for use of pre-ordering and ordering systems.

### Calculation

**Interface Availability (Pre-Ordering/Ordering)** =  $(a \div b) \times 100$

- a = Functional Availability
- b = Scheduled Availability

### Report Structure

- Not CLEC Specific
- Not Product/Service Specific
- Regional Level

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Legacy Contract Type (per reporting dimension)</li> <li>• Regional Scope</li> <li>• Hours of Downtime</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Legacy Contract Type (per reporting dimension)</li> <li>• Regional Scope</li> <li>• Hours of Downtime</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	SQM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Regional Level</li> </ul>	<ul style="list-style-type: none"> <li>• <math>\geq 99.5\%</math></li> </ul>

**OSS Interface Availability**

Application	Applicable to	% Availability
EDI	CLEC	x
TAG	CLEC	x
LENS	CLEC	x
LEO	CLEC	x
LESOG	CLEC	x
LNP Gateway	CLEC	x
COG	CLEC	Under Development
SOG	CLEC	Under Development
DOM	CLEC	Under Development
DOE	CLEC/BST	x
SONGS	CLEC/BST	x
ATLAS/COFFI	CLEC/BST	x
BOCRIS	CLEC/BST	x
DSAP	CLEC/BST	x
RSAG	CLEC/BST	x
SOCS	CLEC/BST	x
CRIS	CLEC/BST	x

OSS-2: Interface Availability (Pre-Ordering/Ordering)

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Regional Level	• ≥ 99.5%

**SEEM OSS Interface Availability**

<b>Application</b>	<b>Applicable to</b>	<b>% Availability</b>
EDI	CLEC	x
HAL	CLEC	x
LENS	CLEC	x
LEO Mainframe	CLEC	x
LESOG	CLEC	x
PSIMS	CLEC	x
TAG	CLEC	x

OSS-2: Interface Availability (Pre-Ordering/Ordering)

## OSS-3: Interface Availability (Maintenance & Repair)

### Definition

Percent of time applications are functionally available as compared to scheduled availability. Calculations are based upon availability of applications and interfacing applications utilized by CLECs for maintenance and repair. "Functional Availability" is defined as the number of hours in the reporting period that the applications/interfaces are available to users. "Scheduled Availability" is defined as the number of hours in the reporting period that the applications/interfaces are scheduled to be available.

Scheduled availability is posted on the Interconnection web site: ([www.interconnection.bellsouth.com/oss/oss\\_hour.html](http://www.interconnection.bellsouth.com/oss/oss_hour.html))

### Exclusions

- CLEC-impacting troubles caused by factors outside of BellSouth's purview, e.g., troubles in customer equipment, troubles in networks owned by telecommunications companies other than BellSouth, etc.
- Degraded service, e.g., slow response time, loss of non-critical functionality, etc.

### Business Rules

This measurement captures the functional availability of applications/interfaces as a percentage of scheduled availability for the same systems. Only full outages are included in the calculations for this measure. Full outages are defined as occurrences of either of the following:

- Application/interfacing application is down or totally inoperative.
- Application is totally inoperative for customers attempting to access or use the application. This includes transport outages when they may be directly associated with a specific application.

Comparison to an internal benchmark provides a vehicle for determining whether or not CLECs and retail BST entities are given comparable opportunities for use of maintenance and repair systems.

### Calculation

**OSS Interface Availability**  $(a \div b) \times 100$

- a = Functional Availability
- b = Scheduled Availability

### Report Structure

- Not CLEC Specific
- Not Product/Service Specific
- Regional Level

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Availability of CLEC TAFI</li> <li>• Availability of LMOS HOST, MARCH, SOCS, CRIS, PREDICTOR, LNP and OSPCM</li> <li>• ECTA</li> </ul>	<ul style="list-style-type: none"> <li>• Availability of BellSouth TAFI</li> <li>• Availability of LMOS HOST, MARCH, SOCS, CRIS, PREDICTOR, LNP and OSPCM</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Regional Level</li> </ul>	<ul style="list-style-type: none"> <li>• <math>\geq 99.5\%</math></li> </ul>

**OSS Interface Availability (M&R)**

OSS Interface	% Availability
BST TAFI	x
CLEC TAFI	x
CLEC ECTA	x
<b>BST &amp; CLEC</b>	x
CRIS	x
LMOS HOST	x
LNP	x
MARCH	x
OSPCM	x
PREDICTOR	x
SOCS	x

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Regional Level	• ≥ 99.5%

**OSS Interface Availability (M&R)**

OSS Interface	% Availability
CLEC TAFI	x
CLEC ECTA	x

OSS-3: Interface Availability (Maintenance &amp; Repair)

## OSS-4: Response Interval (Maintenance & Repair)

### Definition

The response intervals are determined by subtracting the time a request is received on the BellSouth side of the interface from the time the response is received from the legacy system. Percentages of requests falling into each interval category are reported, along with the actual number of requests falling into those categories.

### Exclusions

None

### Business Rules

This measure is designed to monitor the time required for the CLEC and BellSouth interface system to obtain from BellSouth's legacy systems the information required to handle maintenance and repair functions. The clock starts on the date and time when the request is received on the BellSouth side of the interface, and the clock stops when the response has been transmitted through that same point to the requester.

**Note:** The OSS Response Interval BellSouth Total Report is a combination of BellSouth Residence and Business Total.

### Calculation

**OSS Response Interval** = (a - b)

- a = Query Response Date and Time
- b = Query Request Date and Time

**Percent Response Interval** (per category) = (c ÷ d) X 100

- c = Number of Response Intervals in category "X"
- d = Number of Queries Submitted in the Reporting Period

where, "X" is ≤ 4, > 4 ≤ 10, ≤ 10, >10, or > 30 seconds.

### Report Structure

- Not CLEC Specific
- Not Product/Service Specific
- Regional Level

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
• CLEC Transaction Intervals	• BellSouth Business and Residential Transactions Intervals

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark:
• Regional Level	• Parity

**Legacy System Access Times for M&R**

System	BellSouth & CLEC	Count				
		≤ 4	> 4 ≤ 10	≤ 10	> 10	> 30
CRIS	x	x	x	x	x	x
DLETH	x	x	x	x	x	x
DLR	x	x	x	x	x	x
LMOS	x	x	x	x	x	x
LMOSupd	x	x	x	x	x	x
LNP	x	x	x	x	x	x
MARCH	x	x	x	x	x	x
OSPCM	x	x	x	x	x	x
Predictor	x	x	x	x	x	x
SOCS	x	x	x	x	x	x
NIW	x	x	x	x	x	x

OSS-4: Response Interval (Maintenance & Repair)

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
Not Applicable	Not Applicable



## PO-1: Loop Makeup - Response Time – Manual

### Definition

This report measures the average interval and percent within the interval from the submission of a Manual Loop Makeup Service Inquiry (LMUSI) to the distribution of Loop Makeup information back to the CLEC.

### Exclusions

- Inquiries, which are submitted electronically.
- Designated Holidays are excluded from the interval calculation.
- Weekend hours from 5:00PM Friday until 8:00AM Monday are excluded from the interval calculation.
- Canceled Inquiries.

### Business Rules

The CLEC Manual Loop Makeup Service Inquiry (LMUSI) process includes inquiries submitted via mail or FAX to BellSouth's Complex Resale Support Group (CRSG).

This measurement combines three intervals:

1. From receipt of the Service Inquiry for Loop Makeup to hand off to the Service Advocacy Center (SAC) for "Look-up."
2. From SAC start date to SAC complete date.
3. From SAC complete date to date the CRSG distributes loop makeup information back to the CLEC.

The "Receive Date" is defined as the date the Manual LMUSI is received by the CRSG. It is counted as day Zero. LMU "Return Date" is defined as the date the LMU information is sent back to the CLEC from BellSouth. The interval calculation is reset to Zero when a CLEC initiated change occurs on the Manual LMU request.

**Note:** The Loop Make Up Service Inquiry Form does not require the CLEC to furnish the type of Loop. The CLEC determines whether the loop makeup will support the type of service they wish to order or not and qualifies the loop. If the loop makeup will support the service, a firm order LSR is submitted by the CLEC.

### Calculation

**Response Interval** = (a - b)

- a = Date and Time LMUSI returned to CLEC
- b = Date and Time the LMUSI is received

**Average Interval** = (c ÷ d)

- c = Sum of all Response Intervals
- d = Total Number of LMUSIs received within the reporting period

**Percent within interval** = (e ÷ f) X 100

- e = Total LMUSIs received within the interval
- f = Total Number of LMUSIs processed within the reporting period

### Report Structure

- CLEC Aggregate
- CLEC Specific
- Geographic Scope
  - State
  - Region
- Interval for manual LMUs:
  - 0 - 1 day
  - >1 - 2 days
  - >2 - 3 days
  - 0 - ≤ 3 days
  - >3 - 6 days
  - >6 - 10 days

- > 10 days
- Average Interval in days

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of Inquiries</li> <li>• SI Intervals</li> <li>• State and Region</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Loops</li> </ul>	Benchmark <ul style="list-style-type: none"> <li>• 95% in 3 Business Days</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Loops</li> </ul>	Benchmark <ul style="list-style-type: none"> <li>• 95% in 3 Business Days</li> </ul>

## PO-2: Loop Make Up - Response Time - Electronic

### Definition

This report measures the average interval and the percent within the interval from the electronic submission of a Loop Makeup Service Inquiry (LMUSI) to the distribution of Loop Makeup information back to the CLEC.

### Exclusions

- Manually submitted inquiries.
- Designated Holidays are excluded from the interval calculation.
- Canceled Requests.
- Scheduled OSS Maintenance.

### Business Rules

The response interval starts when the CLEC's Mechanized Loop Makeup Service Inquiry (LMUSI) is submitted electronically through the Operational Support Systems interface, LENS, TAG or RoboTAG. It ends when BellSouth's Loop Facility Assignment and Control System (LFACS) responds electronically to the CLEC with the requested Loop Makeup data via LENS, TAG or RoboTAG Interfaces.

**Note:** The Loop Make Up Service Inquiry Form does not require the CLEC to furnish the type of Loop. The CLEC determines whether the loop makeup will support the type of service they wish to order or not and qualifies the loop. If the loop makeup will support the service, a firm order LSR is submitted by the CLEC. EDI is not a pre-ordering system, and, therefore, is not applicable in this measure.

### Calculation

**Response Interval** = (a - b)

- a = Date and Time LMUSI returned to CLEC
- b = Date and Time the LMUSI is received

**Average Interval** = (c ÷ d)

- c = Sum of all response intervals
- d = Total Number of LMUSIs received within the reporting period

**Percent within interval** = (e ÷ f) X 100

- e = Total LMUSIs received within the interval
- f = Total Number of LMUSIs processed within the reporting period

### Report Structure

- CLEC Aggregate
- CLEC Specific
- Geographic Scope
  - State
  - Region
- Interval for electronic LMUs:
  - 0 - 1 minute
  - >1 - 5 minutes
  - 0 - ≤ 5 minutes
  - > 5 - 8 minutes
  - > 8 - 15 minutes
  - > 15 minutes
- Average Interval in minutes

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Legacy Contract</li> <li>• Response Interval</li> <li>• Regional Scope</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Loops</li> </ul>	Benchmark <ul style="list-style-type: none"> <li>• 90% in 5 Minutes (Reassess after 6 months - new system)</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Loop</li> </ul>	<ul style="list-style-type: none"> <li>• 90% in 5 Minutes (Reassess after 6 months - new system)</li> </ul>

## Section 2: Ordering

### O-1: Acknowledgement Message Timeliness

#### Definition

This measurement provides the response interval from the time an LSR or transmission (may contain multiple LSRs from one or more CLECs in multiple states) is electronically submitted via EDI or TAG respectively until an acknowledgement notice is sent by the system.

#### Exclusions

- Scheduled OSS Maintenance

#### Business Rules

The process includes EDI & TAG system functional acknowledgements for all messages/Local Service Requests (LSRs) which are electronically submitted by the CLEC. Users of EDI may package many LSRs into one transmission which will receive the acknowledgement message. EDI users may place multiple LSRs in one “envelope” requesting service in one or more states which will mask the identity of the state and CLEC. The start time is the receipt time of the message at BellSouth’s side of the interface (gateway). The end time is when the acknowledgement is transmitted by BellSouth at BellSouth’s side of the interface (gateway). If more than one CLEC uses the same ordering center (aggregator), an Acknowledgement Message will be returned to the “Aggregator”, however, BellSouth will not be able to determine which specific CLEC or state this message represented.

#### Calculation

**Response Interval** = (a - b)

- a = Date and Time Acknowledgement Notices returned to CLEC
- b = Date and Time messages/LSRs electronically submitted by the CLEC via EDI or TAG respectively

**Average Response Interval** = (c ÷ d)

- c = Sum of all Response Intervals
- d = Total number of electronically submitted messages/LSRs received, from CLECs via EDI or TAG respectively, in the Reporting Period.

#### Reporting Structure

- CLEC Aggregate
- CLEC Specific/Aggregator
- Geographic Scope
  - Region
- Electronically Submitted LSRs
  - 0 – ≤10 minutes
  - >10 – ≤20 minutes
  - >20 – ≤30 minutes
  - 0 – ≤ 30 minutes
  - >30 – ≤45 minutes
  - >45 – ≤60 minutes
  - >60 – ≤120 minutes
  - >120 minutes
- Average interval for electronically submitted messages/LSRs in minutes

#### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report month</li> <li>• Record of functional acknowledgements</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
• EDI	• EDI – 90% within 30 minutes (6 months – 95% within 30 minutes)
• TAG	• TAG – 95% within 30 minutes

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• EDI	• EDI – 90% within 30 minutes (6 months – 95% within 30 minutes)
• TAG	• TAG – 95% within 30 minutes

## O-2: Acknowledgement Message Completeness

### Definition

This measurement provides the percent of transmissions/LSRs received via EDI or TAG respectively, which are acknowledged electronically.

### Exclusions

- Manually submitted LSRs
- Scheduled OSS Maintenance

### Business Rules

EDI and TAG send Functional Acknowledgements for all transmissions/LSRs, which are electronically submitted by a CLEC. Users of EDI may package many LSRs from multiple states in one transmission. If more than one CLEC uses the same ordering center, an Acknowledgement Message will be returned to the "Aggregator". However, BellSouth will not be able to determine which specific CLEC this message represented. The Acknowledgement Message is returned prior to the determination of whether the transmission/LSR will be partially mechanized or fully mechanized.

### Calculation

$$\text{Acknowledgement Completeness} = (a \div b) \times 100$$

- a = Total number of Functional Acknowledgements returned in the reporting period for transmissions/LSRs electronically submitted by EDI or TAG respectively
- b = Total number of electronically submitted transmissions/LSRs received in the reporting period by EDI or TAG respectively

### Report Structure

- CLEC Aggregate
- CLEC Specific/Aggregator
- Geographic Scope
  - Region

**Note:** The Acknowledgement message is generated before the system recognizes whether this electronic transmission will be partially or fully mechanized.

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record of Functional Acknowledgements</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• EDI</li> <li>• TAG</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark: 100%</li> </ul>

### SEEM Measure

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
<ul style="list-style-type: none"><li>• EDI</li><li>• TAG</li></ul>	<ul style="list-style-type: none"><li>• Benchmark: 100%</li></ul>



## O-3: Percent Flow-Through Service Requests (Summary)

### Definition

The percentage of Local Service Requests (LSR) and LNP Local Service Requests (LNP LSRs) submitted electronically via the CLEC mechanized ordering process that flow through and reach a status for a FOC to be issued, without manual intervention.

### Exclusions

- Fatal Rejects
- Auto Clarification
- Manual Fallout
- CLEC System Fallout
- Scheduled OSS Maintenance

### Business Rules

The CLEC mechanized ordering process includes all LSRs, including supplements (subsequent versions) which are submitted through one of the three gateway interfaces (TAG, EDI and LENS), that flow through and reach a status for a FOC to be issued, without manual intervention. These LSRs can be divided into two classes of service: Business and Residence, and two types of service: Resale, and Unbundled Network Elements (UNE). The CLEC mechanized ordering process does not include LSRs which are submitted manually (for example, fax and courier) or are not designed to flow through (for example, Manual Fallout.)

#### Definitions:

**Fatal Rejects:** Errors that prevent an LSR, submitted electronically by the CLEC, from being processed further. When an LSR is submitted by a CLEC, LEO/LNP Gateway will perform edit checks to ensure the data received is correctly formatted and complete. For example, if the PON field contains an invalid character, LEO/LNP Gateway will reject the LSR and the CLEC will receive a Fatal Reject.

**Auto-Clarification:** Clarifications that occur due to invalid data within the LSR. LESOG/LAUTO will perform data validity checks to ensure the data within the LSR is correct and valid. For example, if the address on the LSR is not valid according to RSAG, or if the LNP is not available for the NPA NXX requested, the CLEC will receive an Auto-Clarification.

**Manual Fallout:** Planned Fallout that occur by design. Certain LSRs are designed to fallout of the Mechanized Order Process due to their complexity. These LSRs are manually processed by the LCSC. When a CLEC submits an LSR, LESOG/LAUTO will determine if the LSR should be forwarded to LCSC for manual handling. Following are the categories for Manual Fallout:

- |   |  |
|---|--|
| 1. Complex*   | 8. Denials-restore and conversion, or disconnect and conversion orders   |
| 2. Special pricing plans  | 9. Class of service invalid in certain states with some types of service |
| 3. Some partial migrations                                      | 10. Low volume such as activity type "T" (move)                          |
| 4. New telephone number not yet posted to BOCRIS                | 11. More than 25 business lines, or more than 15 loops                   |
| 5. Pending order review required                                | 12. Transfer of calls option for the CLEC end users                      |
| 6. CSR inaccuracies such as invalid or missing CSR data in CRIS | 13. Directory Listings (Indentions and Captions)                         |
| 7. Expedites (requested by the CLEC)                            |  |

\*See LSR Flow-Through Matrix following O-6 for a list of services, including complex services, and whether LSRs issued for the services are eligible to flow through.

**Total System Fallout:** Errors that require manual review by the LCSC to determine if the error is caused by the CLEC, or is due to BellSouth system functionality. If it is determined the error is caused by the CLEC, the LSR will be sent back to the CLEC for clarification. If it is determined the error is BellSouth caused, the LCSC representative will correct the error, and the LSR will continue to be processed.

**Z Status:** LSRs that receive a supplemental LSR submission prior to final disposition of the original LSR.

**Calculation**

**Percent Flow Through** =  $a \div [b - (c + d + e + f)] \times 100$

- a = The total number of LSRs that flow through LESOG/LAUTO and reach a status for a FOC to be issued
- b = the number of LSRs passed from LEO/LNP Gateway to LESOG/LAUTO
- c = the number of LSRs that fall out for manual processing
- d = the number of LSRs that are returned to the CLEC for clarification
- e = the number of LSRs that contain errors made by CLECs
- f = the number of LSRs that receive a Z status.

**Percent Achieved Flow Through** =  $a \div [b - (c + d + e)] \times 100$

- a = the number of LSRs that flow through LESOG/LAUTO and reach a status for a FOC to be issued.
- b = the number of LSRs passed from LEO/LNP Gateway to LESOG/LAUTO
- c = the number of LSRs that are returned to the CLEC for clarification
- d = the number of LSRs that contain errors made by CLECs
- e = the number of LSRs that receive Z status

**Report Structure**

- CLEC Aggregate
  - Region

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance:
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of LSRs Received, by Interface, by CLEC                             <ul style="list-style-type: none"> <li>- TAG</li> <li>- EDI</li> <li>- LENS</li> </ul> </li> <li>• Total Number of Errors by Type, by CLEC                             <ul style="list-style-type: none"> <li>- Fatal Rejects</li> <li>- Auto Clarification</li> <li>- CLEC Caused System Fallout</li> </ul> </li> <li>• Total Number of Errors by Error Code</li> <li>• Total Fallout for Manual Processing</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of Errors By Type                             <ul style="list-style-type: none"> <li>- BellSouth System Error</li> </ul> </li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark <sup>a</sup>
• Residence	• Benchmark: 95%
• Business	• Benchmark: 90%
• UNE	• Benchmark: 85%

*a. Benchmarks do not apply to the "Percent Achieved Flow Through."*

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark<sup>a</sup></b>
• Residence	• Benchmark: 95%
• Business	• Benchmark: 90%
• UNE	• Benchmark: 85%

*a. Benchmarks do not apply to the "Percent Achieved Flow Through."*

## O-4: Percent Flow-Through Service Requests (Detail)

### Definition

A detailed list, by CLEC, of the percentage of Local Service Requests (LSR) and LNP Local Service Requests (LNP LSRs) submitted electronically via the CLEC mechanized ordering process that flow through and reach a status for a FOC to be issued, without manual or human intervention.

### Exclusions

- Fatal Rejects
- Auto Clarification
- Manual Fallout
- CLEC System Fallout
- Scheduled OSS Maintenance

### Business Rules

The CLEC mechanized ordering process includes all LSRs, including supplements (subsequent versions) which are submitted through one of the three gateway interfaces (TAG, EDI, and LENS), that flow through and reach a status for a FOC to be issued, without manual intervention. These LSRs can be divided into two classes of service: Business and Residence, and three types of service: Resale, and Unbundled Network Elements (UNE). The CLEC mechanized ordering process does not include LSRs, which are submitted manually (for example, fax and courier) or are not designed to flow through (for example, Manual Fallout.)

#### Definitions:

**Fatal Rejects:** Errors that prevent an LSR, submitted electronically by the CLEC, from being processed further. When an LSR is submitted by a CLEC, LEO/LNP Gateway will perform edit checks to ensure the data received is correctly formatted and complete. For example, if the PON field contains an invalid character, LEO/LNP Gateway will reject the LSR and the CLEC will receive a Fatal Reject.

**Auto-Clarification:** Clarifications that occur due to invalid data within the LSR. LESOG/LAUTO will perform data validity checks to ensure the data within the LSR is correct and valid. For example, if the address on the LSR is not valid according to RSAG, or if the LNP is not available for the NPA NXXX requested, the CLEC will receive an Auto-Clarification.

**Manual Fallout:** Planned Fallout that occur by design. Certain LSRs are designed to fallout of the Mechanized Order Process due to their complexity. These LSRs are manually processed by the LCSC. When a CLEC submits an LSR, LESOG/LAUTO will determine if the LSR should be forwarded to LCSC for manual handling. Following are the categories for Manual Fallout:

1. Complex\*
2. Special pricing plans
3. Some partial migrations
4. New telephone number not yet posted to BOCRIS
5. Pending order review required
6. CSR inaccuracies such as invalid or missing CSR data in CRIS
7. Expedites (requested by the CLEC)
8. Denials-restore and conversion, or disconnect and conversion orders
9. Class of service invalid in certain states with some types of service
10. Low volume such as activity type "T" (move)
11. More than 25 business lines, or more than 15 loops
12. Transfer of calls option for the CLEC end users
13. Directory Listings (Intentions and Captions)

\*See LSR Flow-Through Matrix following O-6 for a list of services, including complex services, and whether LSRs issued for the services are eligible to flow through.

**Total System Fallout:** Errors that require manual review by the LCSC to determine if the error is caused by the CLEC, or is due to BellSouth system functionality. If it is determined the error is caused by the CLEC, the LSR will be sent back to the CLEC for clarification. If it is determined the error is BellSouth caused, the LCSC representative will correct the error, and the LSR will continue to be processed.

**Z Status:** LSRs that receive a supplemental LSR submission prior to final disposition of the original LSR.

**Calculation**

**Percent Flow Through** =  $a \div [b - (c + d + e + f)] \times 100$

- a = The total number of LSRs that flow through LESOG/LAUTO and reach a status for a FOC to be issued
- b = the number of LSRs passed from LEO/LNP Gateway to LESOG/LAUTO
- c = the number of LSRs that fall out for manual processing
- d = the number of LSRs that are returned to the CLEC for clarification
- e = the number of LSRs that contain errors made by CLECs
- f = the number of LSRs that receive a Z status.

**Percent Achieved Flow Through** =  $a \div [b - (c + d + e)] \times 100$

- a = the number of LSRs that flow through LESOG/LAUTO and reach a status for a FOC to be issued.
- b = the number of LSRs passed from LEO/LNP Gateway to LESOG/LAUTO
- c = the number of LSRs that are returned to the CLEC for clarification
- d = the number of LSRs that contain errors made by CLECs
- e = the number of LSRs that receive Z status

**Report Structure**

Provides the flow through percentage for each CLEC (by alias designation) submitting LSRs through the CLEC mechanized ordering process. The report provides the following:

- CLEC (by alias designation)
- Number of fatal rejects
- Mechanized interface used
- Total mechanized LSRs
- Total manual fallout
- Number of auto clarifications returned to CLEC
- Number of validated LSRs
- Number of BellSouth caused fallout
- Number of CLEC caused fallout
- Number of Service Orders Issued
- Base calculation
- CLEC error excluded calculation

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of LSRs Received, by Interface, by CLEC                             <ul style="list-style-type: none"> <li>- TAG</li> <li>- EDI</li> <li>- LENS</li> </ul> </li> <li>• Total Number of Errors by Type, by CLEC                             <ul style="list-style-type: none"> <li>- Fatal Rejects</li> <li>- Auto Clarification</li> <li>- CLEC Errors</li> </ul> </li> <li>• Total Number of Errors by Error Code</li> <li>• Total Fallout for Manual Processing</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of Errors by Type                             <ul style="list-style-type: none"> <li>- BellSouth System Error</li> </ul> </li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark <sup>a</sup>
<ul style="list-style-type: none"> <li>• Residence</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark: 95%</li> </ul>

SQM Level of Disaggregation	Retail Analog/Benchmark <sup>a</sup>
• Business	• Benchmark: 90%
• UNE	• Benchmark: 85%

*a. Benchmarks do not apply to the "Percent Achieved Flow Through."*

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## O-5: Flow-Through Error Analysis

### Definition

An analysis of each error type (by error code) that was experienced by the LSRs that did not flow through or reached a status for a FOC to be issued.

### Exclusions

Each Error Analysis is error code specific, therefore exclusions are not applicable.

### Business Rules

The CLEC mechanized ordering process includes all LSRs, including supplements (subsequent versions) which are submitted through one of the three gateway interfaces (TAG, EDI, and LENS), that flow through and reach a status for a FOC to be issued. The CLEC mechanized ordering process does not include LSRs which are submitted manually (for example, fax and courier).

### Calculation

Total for each error type.

### Report Structure

Provides an analysis of each error type (by error code). The report is in descending order by count of each error code and provides the following:

- Error Type (by error code)
- Count of each error type
- Percent of each error type
- Cumulative percent
- Error Description
- CLEC Caused Count of each error code
- Percent of aggregate by CLEC caused count
- Percent of CLEC caused count
- BellSouth Caused Count of each error code
- Percent of aggregate by BellSouth caused count
- Percent of BellSouth by BellSouth caused count

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of LSRs Received</li> <li>• Total Number of Errors by Type (by error code)</li> <li>- CLEC Caused Error</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of Errors by Type (by error code)</li> <li>- BellSouth System Error</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable



## O-6: CLEC LSR Information

### Definition

A list with the flow through activity of LSRs by CC, PON and Ver, issued by each CLEC during the report period.

### Exclusions

- Fatal Rejects
- LSRs submitted manually

### Business Rules

The CLEC mechanized ordering process includes all LSRs, including supplements (subsequent versions) which are submitted through one of the three gateway interfaces (TAG, EDI, and LENS), that flow through and reach a status for a FOC to be issued. The CLEC mechanized ordering process does not include LSRs which are submitted manually (for example, fax and courier).

### Calculation

NA

### Report Structure

Provides a list with the flow through activity of LSRs by CC, PON and Ver, issued by each CLEC during the report period with an explanation of the of the columns and content. This report is available on a CLEC specific basis. The report provides the following for each LSR.

- CC
- PON
- Ver
- Timestamp
- Type
- Err #
- Note or Error Description

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record of LSRs Received by CC, PON and Ver</li> <li>• Record of Timestamp, Type, Err # and Note or Error Description for each LSR by CC, PON and Ver</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

**LSR Flow-Through Matrix**

Product	FT <sup>3</sup>	Complex Service	Complex Order	Planned F allout For Manual Handling <sup>1</sup>	EDI	TAG <sup>2</sup>	LENS <sup>4</sup>	Comments
2 wire analog DID trunk port	No	UNE	Yes	NA	N	N	N	
2 wire analog port	Yes	UNE	No	No	Y	Y	N	
2 wire ISDN digital line side port	No	UNE	Yes	NA	N	N	N	
2 wire ISDN digital loop	Yes	UNE	Yes	No	Y	Y	N	
3 Way Calling	Yes	No	No	No	Y	Y	Y	
4 wire analog voice grade loop	Yes	UNE	Yes	No	Y	Y	N	
4 wire DSO & PRI digital loop	No	UNE	Yes	NA	N	N	N	
4 wire DSI & PRI digital loop	No	UNE	Yes	NA	N	N	N	
4 wire ISDN DSI digital trunk ports	No	UNE	Yes	NA	N	N	N	
Accupulse	No	Yes	Yes	NA	N	N	N	
ADSL	Yes	UNE	No	No	Y	Y	N	
Area Plus	Yes	No	No	No	Y	Y	Y	
Basic Rate ISDN	No	Yes	Yes	Yes	Y	Y	N	
Call Block	Yes	No	No	No	Y	Y	Y	
Call Forwarding-Variable	Yes	No	No	No	Y	Y	Y	
Call Return	Yes	No	No	No	Y	Y	Y	
Call Selector	Yes	No	No	No	Y	Y	Y	
Call Tracing	Yes	No	No	No	Y	Y	Y	
Call Waiting	Yes	No	No	No	Y	Y	Y	
Call Waiting Deluxe	Yes	No	No	No	Y	Y	Y	
Caller ID	Yes	No	No	No	Y	Y	Y	
CENTREX	No	Yes	Yes	NA	N	N	N	
DID WITH PBX ACT W	No	Yes	Yes	Yes	Y	N	Y	
DID ACT W	No	Yes	Yes	Yes	Y	N	Y	
Digital Data Transport	No	UNE	Yes	NA	N	N	N	
Directory Listing Intentions	No	No	No	Yes	Y	Y	Y	
Directory Listings Captions	No	No	Yes	Yes	Y	Y	Y	
Directory Listings (simple)	Yes	No	No	No	Y	Y	Y	
DS3	No	UNE	Yes	NA	N	N	N	
DS1 Loop	Yes	UNE	Yes	No	Y	Y	N	
DS0 Loop	Yes	UNE	Yes	No	Y	Y	N	
Enhanced Caller ID	Yes	No	No	No	Y	Y	Y	
ESSX	No	Yes	Yes	NA	N	N	N	
Flat Rate/Business	Yes	No	No	No	Y	Y	Y	
Flat Rate/Residence	Yes	No	No	No	Y	Y	Y	
FLEXSERV	No	Yes	Yes	NA	N	N	N	
Frame Relay	No	Yes	Yes	NA	N	N	N	
FX	No	Yes	Yes	NA	N	N	N	
Ga. Community Calling	Yes	No	No	No	Y	Y	Y	
HDSL	Yes	UNE	No	No	Y	Y	N	

**LSR Flow-Through Matrix**

Product	FT <sup>3</sup>	Complex Service	Complex Order	Planned F allout For Manual Handling <sup>1</sup>	EDI	TAG <sup>2</sup>	LENS <sup>4</sup>	Comments
Hunting MLH	No	C/S <sup>4</sup>	C/S	Yes	Y	Y	N	
Hunting Series Completion	Yes	C/S	C/S	No	Y	Y	Y	
INP to LNP Conversions	No	UNE	Yes	Yes	Y	Y	N	
LightGate	No	Yes	Yes	NA	N	N	N	
Line Sharing	Yes	UNE	No	No	Y	Y	N	
Local Number Portability	Yes	UNE	Yes	No	Y	Y	N	
LNP with Complex Listing	No	UNE	Yes	Yes	Y	Y	N	
LNP with Partial Migration	No	UNE	Yes	Yes	Y	Y	N	
LNP with Complex Services	No	UNE	Yes	Yes	Y	Y	N	
Loop+INP	Yes	UNE	No	No	Y	Y	N	
Loop+LNP	Yes	UNE	No	No	Y	Y	N	
Measured Rate/Bus.	Yes	No	No	No	Y	Y	Y	
Measured Rate/Res.	Yes	No	No	No	Y	Y	Y	
Megalink	No	Yes	Yes	NA	N	N	N	
Megalink-T1	No	Yes	Yes	NA	N	N	N	
Memory Call	Yes	No	No	No	Y	Y	Y	
Memory Call Ans. Svc.	Yes	No	No	No	Y	Y	Y	
Multiserv	No	Yes	Yes	NA	N	N	N	
Native Mode LAN Interconnection (NMLI)	No	Yes	Yes	NA	N	N	N	
Off-Prem Stations	No	Yes	Yes	NA	N	N	N	
Optional Calling Plan	Yes	No	No	No	Y	Y	Y	
Package/Complete Choice and area plus	Yes	No	No	No	Y	Y	Y	
Pathlink Primary Rate ISDN	No	Yes	Yes	NA	N	N	N	
Pay Phone Provider	No	No	No	NA	N	N	N	
PBX Standalone ACT A,C, D	No	Yes	Yes	Yes	Y	Y	N	
PBX Trunks	No	Yes	Yes	Yes	Y	Y	N	
Port/Loop Combo	Yes	UNE	No	No	Y	Y	Y	
Port/Loop PBX	No	No	No	Yes	Y	Y	N	
Preferred Call Forward	Yes	No	No	No	Y	Y	Y	
RCF Basic	Yes	No	No	No	Y	Y	Y	
Remote Access to CF	Yes	No	No	No	Y	Y	Y	
Repeat Dialing	Yes	No	No	No	Y	Y	Y	
Ringmaster	Yes	No	No	No	Y	Y	Y	
Smartpath	No	Yes	Yes	NA	N	N	N	
SmartRING	No	Yes	Yes	NA	N	N	N	
Speed Calling	Yes	No	No	No	Y	Y	Y	
Synchronet	No	Yes	Yes	Yes	Y	Y	N	
Tie Lines	No	Yes	Yes	NA	N	N	N	
Touchtone	Yes	No	No	No	Y	Y	Y	
Unbundled Loop-Analog 2W, SL1, SL2	Yes	UNE	No	No	Y	Y	Y	

**LSR Flow-Through Matrix**

Product	FT <sup>3</sup>	Complex Service	Complex Order	Planned F allout For Manual Handling <sup>1</sup>	EDI	TAG <sup>2</sup>	LENS <sup>4</sup>	Comments
WATS	No	Yes	Yes	NA	N	N	N	
XDSL	Yes	UNE	No	No	Y	Y	N	
XDSL Extended LOOP	No	UNE	Yes	NA	N	N	N	
Collect Call Block	Yes	No	No	No	Y	Y	Y	
900 Call Block	Yes	No	No	No	Y	Y	Y	
3rd Party Call Block	Yes	No	No	No	Y	Y	Y	
Three Way Call Block	Yes	No	No	No	Y	Y	Y	
PIC/LPIC Change	Yes	No	No	No	Y	Y	Y	
PIC/LPIC Freeze	Yes	No	No	No	Y	Y	Y	

**Note<sup>1</sup>:** Planned Fallout for Manual Handling denotes those services that are electronically submitted and are not intended to flow through due to the complexity of the service.

**Note<sup>2</sup>:** The TAG column includes those LSRs submitted via Robo TAG.

**Note<sup>3</sup>:** For all services that indicate 'No' for flow-through, the following reasons, in addition to errors or complex services, also prompt manual handling: Expedites from CLECs, special pricing plans, denials restore and conversion or disconnect and conversion both required, partial migrations (although conversions-as-is flow through for issue 9), class of service invalid in certain states with some TOS e.g. government, or cannot be changed when changing main TN on C activity, low volume e.g. activity type T=move, pending order review required, more than 25 business lines, CSR inaccuracies such as invalid or missing CSR data in CRIS, Directory listings – Intentions, Directory listings – Captions, transfer of calls option for CLEC end user – new TN not yet posted to BOCRIS. Many are unique to the CLEC environment.

**Note<sup>4</sup>:** Services with C/S in the Complex Service and/or the Complex Order columns can be either complex or simple.

**Note<sup>5</sup>:** EELs are manually ordered.

## O-7: Percent Rejected Service Requests

### Definition

Percent Rejected Service Request is the percent of total Local Service Requests (LSRs) received which are rejected due to error or omission. An LSR is considered valid when it is submitted by the CLEC and passes edit checks to insure the data received is correctly formatted and complete.

### Exclusions

- Service Requests canceled by the CLEC prior to being rejected/clarified.
- Scheduled OSS Maintenance

### Business Rules

**Fully Mechanized:** An LSR is considered “rejected” when it is submitted electronically but does not pass LEO edit checks in the ordering systems (EDI, LENS, TAG, LEO, LESOG, LNP Gateway and LAUTO) and is returned to the CLEC without manual intervention. There are two types of “Rejects” in the Mechanized category:

A **Fatal Reject** occurs when a CLEC attempts to electronically submit an LSR but required fields are either not populated or incorrectly populated and the request is returned to the CLEC before it is considered a valid LSR.

*Fatal rejects are reported in a separate column, and for informational purposes ONLY. Fatal rejects are excluded from the calculation of the percent of total LSRs rejected or the total number of rejected LSRs.*

An **Auto Clarification** occurs when a valid LSR is electronically submitted but rejected from LESOG or LAUTO because it does not pass further edit checks for order accuracy.

**Partially Mechanized:** A valid LSR, which is electronically submitted (via EDI, LENS, TAG) but cannot be processed electronically and “falls out” for manual handling. It is then put into “clarification” and sent back (rejected) to the CLEC.

**Total Mechanized:** Combination of Fully Mechanized and Partially Mechanized LSRs electronically submitted by the CLEC.

**Non-Mechanized:** LSRs which are faxed or mailed to the LCSC for processing and “clarified” (rejected) back to the CLEC by the BellSouth service representative.

**Interconnection Trunks:** Interconnection Trunks are ordered on Access Service Requests (ASRs). ASRs are submitted to and processed by the Local Interconnection Service Center (LISC). Trunk data is reported separately.

### Calculation

**Percent Rejected Service Requests** =  $(a + b) \times 100$

- a = Total Number of Rejected Service Requests in the Reporting Period
- b = Total Number of Service Requests Received in the Reporting Period

### Report Structure

- Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized
- CLEC Specific
- CLEC Aggregate
- Geographic Scope
  - State
  - Region
- Product Specific Percent Rejected
- Total Percent Rejected

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of LSRs</li> <li>• Total Number of Rejects</li> <li>• State and Region</li> <li>• Total Number of ASRs (Trunks)</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
Mechanized, Partially Mechanized and Non-Mechanized <ul style="list-style-type: none"> <li>• Resale - Residence</li> <li>• Resale - Business</li> <li>• Resale - Design (Special)</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop Non-Design</li> <li>• UNE Loop + Port Combinations</li> <li>• UNE Switch Ports</li> <li>• UNE Other Non-Design</li> <li>• UNE Other Design</li> <li>• UNE Digital Loop &lt; DS1</li> <li>• UNE Digital Loop ≥ DS1</li> <li>• UNE Combination Other</li> <li>• UNE xDSL (ADSL, HDSL, UCL)</li> <li>• Line Sharing</li> <li>• UNE ISDN Loop</li> <li>• Local Interoffice Transport</li> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

O-7: Percent Rejected Service Requests

## O-8: Reject Interval

### Definition

Reject Interval is the average reject time from receipt of an LSR to the distribution of a Reject. An LSR is considered valid when it is submitted by the CLEC and passes edit checks to insure the data received is correctly formatted and complete.

### Exclusions

- Service Requests canceled by CLEC prior to being rejected/clarified
- Designated Holidays are excluded from the interval calculation
- LSRs which are identified and classified as "Projects"
- The following hours for Partially mechanized and Non-mechanized LSRs are excluded from the interval calculation:

Residence Resale Group – Monday through Saturday 7:00PM until 7:00AM  
From 7:00 PM Saturday until 7:00 AM Monday

Business Resale, Complex, UNE Groups – Monday through Friday 6:00PM until 8:00AM  
From 6:00 PM Friday until 8:00 AM Monday

The hours excluded will be altered to reflect changes in the Center operating hours. The LCSC will accept faxed LSRs only during posted hours of operation.

The interval will be the amount of time accrued from receipt of the LSR until normal closing of the center if an LSR is worked using overtime hours.

In the case of a Partially Mechanized LSR received and worked after normal business hours, the interval will be set at one (1) minute.

- For ASRs processed in the Local Interconnection Service Center (LISC), all hours outside of Monday - Friday, 8:00-4:30 CST, should be excluded.
- Scheduled OSS Maintenance

### Business Rules

**Fully Mechanized:** The elapsed time from receipt of a valid electronically submitted LSR (date and time stamp in EDI, LENS or TAG) until the LSR is rejected (date and time stamp or reject in EDI, TAG or LENS). Auto Clarifications are considered in the Fully Mechanized category.

**Partially Mechanized:** The elapsed time from receipt of a valid electronically submitted LSR (date and time stamp in EDI, LENS or TAG) until it falls out for manual handling. The stop time on partially mechanized LSRs is when the LCSC Service Representative clarifies the LSR back to the CLEC via LENS, EDI, or TAG.

**Total Mechanized:** Combination of Fully Mechanized and Partially Mechanized LSRs which are electronically submitted by the CLEC.

**Non-Mechanized:** The elapsed time from receipt of a valid LSR (date and time stamp of FAX or date and time mailed LSR is received in the LCSC) until notice of the reject (clarification) is returned to the CLEC via LON.

**Interconnection Trunks:** Interconnection Trunks are ordered on Access Service Requests (ASRs). ASRs are submitted to and processed by the Local Interconnection Service Center (LISC). Trunk data is reported separately. All interconnection trunks are counted in the non-mechanized category.

### Calculation

**Reject Interval** = (a - b)

- a = Date and Time of Service Request Rejection
- b = Date and Time of Service Request Receipt

**Average Reject Interval** = (c ÷ d)

- c = Sum of all Reject Intervals
- d = Number of Service Requests Rejected in Reporting Period

### Report Structure



- CLEC Specific
- CLEC Aggregate
- Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized
- Geographic Scope
  - State
  - Region
- Mechanized:
  - 0 - ≤ 4 minutes
  - >4 - ≤ 8 minutes
  - >8 - ≤ 12 minutes
  - >12 - ≤ 60 minutes
  - 0 - ≤ 1 hour
  - >1 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 12 hours
  - >12 - ≤ 16 hours
  - >16 - ≤ 20 hours
  - >20 - ≤ 24 hours
  - >24 hours
- Partially Mechanized:
  - 0 - ≤ 1 hour
  - >1 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 10 hours
  - 0 - ≤ 10 hours
  - >10 - ≤ 18 hours
  - 0 - ≤ 18 hours
  - >18 - ≤ 24 hours
  - >24 hours
- Non-mechanized:
  - 0 - ≤ 1 hour
  - >1 - ≤ 4 hours
  - >4 - ≤ 8 hours
  - >8 - ≤ 12 hours
  - >12 - ≤ 16 hours
  - >16 - ≤ 20 hours
  - >20 - ≤ 24 hours
  - 0 - ≤ 24 hours
  - > 24 hours
- Trunks:
  - ≤ 4 days
  - >4 - ≤ 8 days
  - >8 - ≤ 12 days
  - >12 - ≤ 14 days
  - >14 - ≤ 20 days
  - >20 days

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
Report Month <ul style="list-style-type: none"> <li>• Reject Interval</li> <li>• Total Number of LSRs</li> <li>• Total Number of Rejects</li> <li>• State and Region</li> <li>• Total Number of ASRs (Trunks)</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale – Residence</li> <li>• Resale – Business</li> <li>• Resale – Design (Special)</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop Non-Design</li> <li>• UNE Loop + Port Combinations</li> <li>• UNE Switch Ports</li> <li>• UNE Other Design</li> <li>• UNE Other Non-Design</li> <li>• UNE Digital Loop &lt; DS1</li> <li>• UNE Digital Loop ≥ DS1</li> <li>• UNE Combination Other</li> <li>• UNE xDSL (ADSL, HDSL, UCL)</li> <li>• Line Sharing</li> <li>• UNE ISDN Loops</li> <li>• Local Interoffice Transport</li> </ul>	<ul style="list-style-type: none"> <li>• Fully Mechanized:                             <ul style="list-style-type: none"> <li>- 95% within 1 Hour</li> </ul> </li> <li>• Partially Mechanized:                             <ul style="list-style-type: none"> <li>- 85% within 24 hours</li> <li>- 85% within 18 Hours in 3 Months</li> <li>- 85% within 10 Hours in 6 Months</li> </ul> </li> <li>• Non-Mechanized: - 85% within 24 hours</li> </ul>
<ul style="list-style-type: none"> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Trunks: - 85% within 4 Days</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Fully Mechanized</li> </ul>	<ul style="list-style-type: none"> <li>• 95% ≤ 1 hour</li> </ul>

## O-9: Firm Order Confirmation Timeliness

### Definition

Interval for Return of a Firm Order Confirmation (FOC Interval) is the average response time from receipt of valid LSR to distribution of a Firm Order Confirmation.

### Exclusions

- Rejected LSRs
- Designated Holidays are excluded from the interval calculation.
- LSRs which are identified and classified as "Projects"
- The following hours for Partially Mechanized and Non-mechanized LSRs are excluded from the interval calculation:

Residence Resale Group – Monday through Saturday 7:00PM until 7:00AM

From 7:00 PM Saturday until 7:00 AM Monday.

Business Resale, Complex, UNE Groups – Monday through Friday 6:00PM until 8:00AM

From 6:00 PM Friday until 8:00 AM Monday.

The hours excluded will be altered to reflect changes in the Center operating hours. The LCSC will accept faxed LSRs only during posted hours of operation.

The interval will be the amount of time accrued from receipt of the LSR until normal closing of the center if an LSR is worked using overtime hours.

In the case of a Partially Mechanized LSR received and worked after normal business hours, the interval will be set at one (1) minute.

- For ASRs processed in the Local Interconnection Service Center (LISC), all hours outside of Monday - Friday, 8:00-4:30 CST, should be excluded.
- Scheduled OSS Maintenance

### Business Rules

- **Fully Mechanized:** The elapsed time from receipt of a valid electronically submitted LSR (date and time stamp in EDI, LENS or TAG) until the LSR is processed, appropriate service orders are generated and a Firm Order Confirmation is returned to the CLEC via EDI, LENS or TAG.
- **Partially Mechanized:** The elapsed time from receipt of a valid electronically submitted LSR (date and time stamp in EDI, LENS, or TAG) which falls out for manual handling until appropriate service orders are issued by a BellSouth service representative via Direct Order Entry (DOE) or Service Order Negotiation Generation System (SONGS) to SOCS and a Firm Order Confirmation is returned to the CLEC via EDI, LENS, or TAG.
- **Total Mechanized:** Combination of Fully Mechanized and Partially Mechanized LSRs which are electronically submitted by the CLEC.
- **Non-Mechanized:** The elapsed time from receipt of a valid paper LSR (date and time stamp of FAX or date and time paper LSRs received in LCSC) until appropriate service orders are issued by a BellSouth service representative via Direct Order Entry (DOE) or Service Order Negotiation Generation System (SONGS) to SOCS and a Firm Order Confirmation is sent to the CLEC via LON.
- **Interconnection Trunks:** Interconnection Trunks are ordered on Access Service Requests (ASRs). ASRs are submitted to and processed by the Local Interconnection Service Center (LISC). Trunk data is reported separately.

### Calculation

**Firm Order Confirmation Interval** = (a - b)

- a = Date & Time of Firm Order Confirmation
- b = Date & Time of Service Request Receipt)

**Average FOC Interval** = (c ÷ d)

- c = Sum of all FOC Intervals
- d = Total Number of Service Requests Confirmed in Reporting Period

**FOC Interval Distribution** (for each interval) = (e ÷ f) X 100

- e = Service Requests Confirmed in interval
- f = Total Service Requests Confirmed in the Reporting Period

### Report Structure

- Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized
  - CLEC Specific
  - CLEC Aggregate
- Geographic Scope
  - State
  - Region
- Fully Mechanized:
  - 0 -  $\leq$  15 minutes
  - >15 -  $\leq$  30 minutes
  - >30 -  $\leq$  45 minutes
  - >45 -  $\leq$  60 minutes
  - >60 -  $\leq$  90 minutes
  - >90 -  $\leq$  120 minutes
  - >120 -  $\leq$  180 minutes
  - 0 -  $\leq$  3 hours
  - >3 -  $\leq$  6 hours
  - >6 -  $\leq$  12 hours
  - >12 -  $\leq$  24 hours
  - >24 -  $\leq$  48 hours
  - >48 hours
- Partially Mechanized:
  - 0 -  $\leq$  4 hours
  - >4 -  $\leq$  8 hours
  - >8 -  $\leq$  10 hours
  - 0 -  $\leq$  10 hours
  - >10 -  $\leq$  18 hours
  - 0 -  $\leq$  18 hours
  - >18 -  $\leq$  24 hours
  - 0 -  $\leq$  24 hours
  - >24 -  $\leq$  48 hours
  - >48 hours
- Non-Mechanized
  - 0 -  $\leq$  4 hours
  - >4 -  $\leq$  8 hours
  - >8 -  $\leq$  12 hours
  - >12 -  $\leq$  16 hours
  - >16 -  $\leq$  20 hours
  - >20 -  $\leq$  24 hours
  - >24 -  $\leq$  36 hours
  - 0 -  $\leq$  36 hours
  - >36 -  $\leq$  48 hours
  - >48 hours
- Trunks:
  - 0 -  $\leq$  5 days
  - >5 -  $\leq$  10 days
  - 0 -  $\leq$  10 days
  - >10 -  $\leq$  15 days
  - >15 -  $\leq$  20 days
  - >20 days

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Interval for FOC</li> <li>• Total Number of LSRs</li> <li>• State and Region</li> <li>• Total Number of ASRs (Trunks)</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale – Residence</li> <li>• Resale – Business</li> <li>• Resale – Design (Special)</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop Non-Design</li> <li>• UNE Loop + Port Combinations</li> <li>• UNE Switch Ports</li> <li>• UNE Other Design</li> <li>• UNE Other Non-Design</li> <li>• UNE Digital Loop &lt; DS1</li> <li>• UNE Digital Loop ≥ DS1</li> <li>• UNE Combination Other</li> <li>• UNE xDSL (ADSL, HDSL, UCL)</li> <li>• Line Sharing</li> <li>• UNE ISDN Loops</li> <li>• Local Interoffice Transport</li> </ul>	<ul style="list-style-type: none"> <li>• Mechanized: 95% within 3 Hours</li> <li>• Partially Mechanized:                             <ul style="list-style-type: none"> <li>- 85% within 24 hours</li> <li>- 85% within 18 Hours in 3 Months</li> <li>- 85% within 10 Hours in 6 Months</li> </ul> </li> <li>• Non-Mechanized: 85% within 36 hours</li> </ul>
<ul style="list-style-type: none"> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Trunks: - 95% within 10 days</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Fully Mechanized</li> </ul>	<ul style="list-style-type: none"> <li>• 95% within 3 hours</li> </ul>

## O-10: Service Inquiry with LSR Firm Order Confirmation (FOC) Response Time Manual<sup>1</sup>

### Definition

This report measures the interval and the percent within the interval from the submission of a Service Inquiry (SI) with Firm Order LSR to the distribution of a Firm Order Confirmation (FOC).

### Exclusions

- Designated Holidays are excluded from the interval calculation.
- Weekend hours from 5:00PM Friday until 8:00AM Monday are excluded from the interval calculation of the Service Inquiry.
- Canceled Requests
- Electronically Submitted Requests
- Scheduled OSS Maintenance

### Business Rules

This measurement combines four intervals:

1. From receipt of Service Inquiry with LSR to hand off to the Service Advocacy Center (SAC) for Loop 'Look-up'.
2. From SAC start date to SAC complete date.
3. From SAC complete date to the Complex Resale Support Group (CRSG) complete date with hand off to LCSC.
4. From receipt of SI/LSR in the LCSC to Firm Order Confirmation.

### Calculation

**FOC Timeliness Interval** = (a - b)

- a = Date and Time Firm Order Confirmation (FOC) for SI with LSR returned to CLEC
- b = Date and Time SI with LSR received

**Average Interval** = (c ÷ d)

- c = Sum of all FOC Timeliness Intervals
- d = Total number of SIs with LSRs received in the reporting period

**Percent Within Interval** = (e ÷ f) X 100

- e = Total number of Service Inquiries with LSRs received by the CRSG to distribution of FOC by the Local Carrier Service Center (LCSC)
- f = Total number of Service Inquiries with LSRs received in the reporting period

### Report Structure

- CLEC Aggregate
- CLEC Specific
- Geographic Scope
  - State
  - Region
- Intervals
  - 0 – ≤ 3 days
  - >3 – ≤ 5 days
  - 0 – ≤ 5 days
  - >5 – ≤ 7 days
  - >7 – ≤ 10 days
  - >10 – ≤ 15 days
  - >15 days
- Average Interval measured in days

*1. See O-9 for FOC Timeliness*

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Number of Requests</li> <li>• SI Intervals</li> <li>• State and Region</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• xDSL (includes UNE unbundled ADSL, HDSL and UNE Unbundled Copper Loops)</li> <li>• Unbundled Interoffice Transport</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Returned within 5 Business days</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

## O-11: Firm Order Confirmation and Reject Response Completeness

### Definition

A response is expected from BellSouth for every Local Service Request transaction (version). More than one response or differing responses per transaction is not expected. Firm Order Confirmation and Reject Response Completeness is the corresponding number of Local Service Requests received to the combination of Firm Order Confirmation and Reject Responses.

### Exclusions

- Service Requests canceled by the CLEC prior to FOC or Rejected/Clarified
- Non-Mechanized LSRs
- Scheduled OSS Maintenance

### Business Rules

**Mechanized** – The number of FOCs or Auto Clarifications sent to the CLEC from LENS, EDI, TAG in response to electronically submitted LSRs (date and time stamp in LENS, EDI, TAG).

**Partially Mechanized** – The number of FOCs or Rejects sent to the CLEC from LENS, EDI, TAG in response to electronically submitted LSRs (date and time stamp in LENS, EDI, TAG), which fall out for manual handling by the LCSC personnel.

**Total Mechanized** – The number of the combination of Fully Mechanized and Partially Mechanized LSRs.

**Note:** Manual (Non-Mechanized) LSRs have no version control by the very nature of the manual process, therefore, non-mechanized LSRs are not captured by this report.

#### For CLEC Results:

Firm Order Confirmation and Reject Response Completeness is determined in two dimensions:

Percent responses is determined by computing the number of Firm Order Confirmations and Rejects transmitted by BellSouth and dividing by the number of Local Service Requests (all versions) received in the reporting period.

Percent of multiple responses is determined by computing the number of Local Service Request unique versions receiving more than one Firm Order Confirmation, Reject or the combination of the two and dividing by the number of Local Service Requests (all versions) received in the reporting period.

### Calculation

**Firm Order Confirmation/Reject Response Completeness** =  $(a \div b) \times 100$

- a = Total Number of Service Requests for which a Firm Order Confirmation or Reject is Sent
- b = Total Number of Service Requests Received in the Report Period

**Firm Order Confirmation/Reject Response Completeness (Single Response)** =  $[(a + b) \div c] \times 100$

- a = Total Number of Firm Order Confirmations Per LSR Version
- b = Total Number of Reject Responses Per LSR Version
- c = Total Number of Service Requests (All Versions) Responded to only once in the Reporting Period

### Report Structure

Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized

- State and Region
- CLEC Specific
- CLEC Aggregate
- BellSouth Specific



**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
Report Month • Reject Interval • Total Number of LSRs • Total Number of Rejects	• Not Applicable

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale Residence</li> <li>• Resale Business</li> <li>• Resale Design</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP Standalone</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop Non – Design</li> <li>• UNE Loop and Port Combinations</li> <li>• UNE Switch Ports</li> <li>• UNE Other Design</li> <li>• UNE Other Non-Design</li> <li>• UNE Digital Loop &lt; DS1</li> <li>• UNE Digital Loop ≥ DS1</li> <li>• UNE Combination Other</li> <li>• UNE xDSL (ADSL, HDSL, UCL)</li> <li>• Line Sharing</li> <li>• UNE ISDN Loops</li> <li>• Local Interoffice Transport</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Returned</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Fully Mechanized</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Returned</li> </ul>

## O-12: Speed of Answer in Ordering Center

### Definition

Measures the average time a customer is in queue.

### Exclusions

None

### Business Rules

The clock starts when the appropriate option is selected (i.e., 1 for Resale Consumer, 2 for Resale Multiline, and 3 for UNE-LNP, etc.) and the call enters the queue for that particular group in the LCSC. The clock stops when a BellSouth service representative in the LCSC answers the call. The speed of answer is determined by measuring and accumulating the elapsed time from the entry of a CLEC call into the BellSouth automatic call distributor (ACD) until a service representative in BellSouth's Local Carrier Service Center (LCSC) answers the CLEC call.

### Calculation

**Speed of Answer in Ordering Center** =  $(a \div b)$

- a = Total seconds in queue
- b = Total number of calls answered in the Reporting Period

### Report Structure

Aggregate

- CLEC – Local Carrier Service Center
- BellSouth
  - Business Service Center
  - Residence Service Center

**Note:** Combination of Residence Service Center and Business Service Center data under development

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Mechanized tracking through LCSC Automatic Call Distributor</li> </ul>	<ul style="list-style-type: none"> <li>• Mechanized tracking through BellSouth Retail center support system.</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
Aggregate <ul style="list-style-type: none"> <li>• CLEC – Local Carrier Service Center</li> <li>• BellSouth                             <ul style="list-style-type: none"> <li>- Business Service Center</li> <li>- Residence Service Center</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

O-12: Speed of Answer in Ordering Center

## Section 3: Provisioning

### P-1: Mean Held Order Interval & Distribution Intervals

#### Definition

When delays occur in completing CLEC orders, the average period that CLEC orders are held for BellSouth reasons, pending a delayed completion, should be no worse for the CLEC when compared to BellSouth delayed orders. Calculation of the interval is the total days orders are held and pending but not completed that have passed the currently committed due date; divided by the total number of held orders. This report is based on orders still pending, held and past their committed due date at the close of the reporting period. The distribution interval is based on the number of orders held and pending but not completed over 15 and 90 days. (Orders reported in the  $\geq 90$  day interval are also included in the  $\geq 15$  day interval.)

#### Exclusions

- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.). Order types may be N, C or T.
- Disconnect (D) & From (F) orders
- Orders with appointment code of 'A' for Rural orders.

#### Business Rules

**Mean Held Order Interval:** This metric is computed at the close of each report period. The held order interval is established by first identifying all orders, at the close of the reporting interval, that both have not been reported as completed in SOCS and have passed the currently committed due date for the order. For each such order, the number of calendar days between the earliest committed due date on which BellSouth had a company missed appointment and the close of the reporting period is established and represents the held order interval for that particular order. The held order interval is accumulated by the standard groupings, unless otherwise noted, and the reason for the order being held. The total number of days accumulated in a category is then divided by the number of held orders within the same category to produce the mean held order interval. The interval is by calendar days with no exclusions for Holidays or Sundays.

CLEC Specific reporting is by type of held order (facilities, equipment, other), total number of orders held, and the total and average days.

**Held Order Distribution Interval:** This measure provides data to report total days held and identifies these in categories of  $\geq 15$  days and  $\geq 90$  days. (Orders counted in  $\geq 90$  days are also included in  $\geq 15$  days).

#### Calculation

**Mean Held Order Interval** =  $a \div b$

- $a$  = Sum of held-over-days for all Past Due Orders with a BellSouth Missed Appointment from the earlier BellSouth Missed Appointment.
- $b$  = Number of Past Due Orders Held and Pending But Not Completed and past the committed due date

**Held Order Distribution Interval** (for each interval) =  $(c \div d) \times 100$

- $c$  = # of Orders Held for  $\geq 15$  days or # of Orders Held for  $\geq 90$  days
- $d$  = Total # of Past Due Orders Held and Pending But Not Completed)

#### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Circuit Breakout < 10,  $\geq 10$  (except trunks)

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report month</li> <li>• CLEC Order Number and PON (PON)</li> <li>• Order Submission Date (TICKET_ID)</li> <li>• Committed Due Date (DD)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Hold Reason</li> <li>• Total line/circuit count</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report month</li> <li>• BellSouth Order Number</li> <li>• Order Submission Date</li> <li>• Committed Due Date</li> <li>• Service Type</li> <li>• Hold Reason</li> <li>• Total line/circuit count</li> <li>• Geographic Scope</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP	• Retail Residence and Business (POTS)
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop-Non-Design	• Retail Residence and Business - POTS (Excluding Switch-Based Orders)
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN (Includes UDC)	• Retail ISDN - BRI
• UNE Line Sharing	• ADSL Provided to Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice
• Local Interconnection Trunks	• Parity with Retail

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

## P-2: Average Jeopardy Notice Interval & Percentage of Orders Given Jeopardy Notices

### Definition

When BellSouth can determine in advance that a committed due date is in jeopardy for facility delay, it will provide advance notice to the CLEC.

The interval is from the date/time the notice is released to the CLEC/BellSouth systems until 5pm on the commitment date of the order. The Percent of Orders is the percentage of orders given jeopardy notices for facility delay in the count of orders confirmed in the report period.

### Exclusions

- Orders held for CLEC end user reasons
- Disconnect (D) & From (F) orders
- Non-Dispatch Orders
- Orders with Jeopardy Notice when jeopardy is identified after 5pm on the due date (technician on premise has attempted to provide service but must refer to Engineering or Cable Repair for facility jeopardy).

### Business Rules

When BellSouth can determine in advance that a committed due date is in jeopardy for facility delay, it will provide advance notice to the CLEC. The number of committed orders in a report period is the number of orders that have a due date in the reporting period. Jeopardy notices for interconnection trunks results are usually zero as these trunks seldom experience facility delays. The Committed due date is considered the Confirmed due date. This report measures dispatched orders only. If an order is originally sent as non-dispatch, and it is determined there is a facility delay, the order is converted to a dispatch code so the facility problem can be corrected. It will remain coded dispatched until completion.

### Calculation

**Jeopardy Interval** = a - b

- a = Date and Time of Jeopardy Notice
- b = Date and Time of Scheduled Due Date on Service Order

**Average Jeopardy Interval** = c ÷ d

- c = Sum of all jeopardy intervals
- d = Number of Orders Notified of Jeopardy in Reporting Period

**Percent of Orders Given Jeopardy Notice** = (e ÷ f) X 100

- e = Number of Orders Given Jeopardy Notices in Reporting Period
- f = Number of Orders Confirmed (due) in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Dispatch Orders
- Mechanized Orders
- Non-Mechanized Orders

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number and PON</li> <li>• Date and Time Jeopardy Notice Sent</li> <li>• Committed Due Date</li> <li>• Service Type</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number</li> <li>• Date and Time Jeopardy Notice Sent</li> <li>• Committed Due Date</li> <li>• Service Type</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark:
% Orders Given Jeopardy Notice	
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP	• Retail Residence and Business (POTS)
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design	• Retail Residence and Business - (POTS Excluding Switch-Based Orders)
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE Loop + Port Combinations	• Retail Business and Residence
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN (Includes UDC)	• Retail ISDN BRI
• UNE Line Sharing	• ADSL Provided to Retail
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice
• Local Interconnection Trunks	• Parity with Retail
• Average Jeopardy Notice Interval (Electronic only)	• 95% ≥ 48 Hours

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

P-2: Average Jeopardy Notice Interval &amp; Percentage of Orders Given Jeopardy Notices



**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

P-2: Average Jeopardy Notice Interval & Percentage of Orders Given Jeopardy Notices

## P-3: Percent Missed Installation Appointments

### Definition

“Percent missed installation appointments” monitors the reliability of BellSouth commitments with respect to committed due dates to assure that the CLEC can reliably quote expected due dates to their retail customer as compared to BellSouth. This measure is the percentage of total orders processed for which BellSouth is unable to complete the service orders on the committed due dates and reported for Total misses and End User Misses.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders Test Orders, etc.). Order types may be N, C or T.
- Disconnect (D) & From (F) orders
- End User Misses on Local Interconnection Trunks

### Business Rules

Percent Missed Installation Appointments (PMI) is the percentage of orders with completion dates in the reporting period that are past the original committed due date. Missed Appointments caused by end-user reasons will be included and reported separately. The first commitment date on the service order that is a missed appointment is the missed appointment code used for calculation whether it is a BellSouth missed appointment or an End User missed appointment. The “due date” is any time on the confirmed due date. Which means there cannot be a cutoff time for commitments, as certain types of orders are requested to be worked after standard business hours. Also, during Daylight Savings Time, field technicians are scheduled until 9PM in some areas and the customer is offered a greater range of intervals from which to select.

### Calculation

$$\text{Percent Missed Installation Appointments} = (a \div b) \times 100$$

- a = Number of Orders with Completion date in Reporting Period past the Original Committed Due Date
- b = Number of Orders Completed in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Report in Categories of <10 lines/circuits ≥ 10 lines/circuits
- Dispatch/Non-Dispatch

**Report Explanation:** The difference between End User MA and Total MA is the result of BellSouth caused misses. Here, Total MA is the total percent of orders missed either by BellSouth or CLEC end user. The End User MA represents the percentage of orders missed by the CLEC or their end user.

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number and PON (PON)</li> <li>• Committed Due Date (DD)</li> <li>• Completion Date (CMPLTN DD)</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number</li> <li>• Committed Due Date (DD)</li> <li>• Completion Date (CMPLTN DD)</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> <li>• Geographic Scope</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

P-3: Percent Missed Installation Appointments

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP	• Retail Residence and Business (POTS)
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) - Dispatch - Non-Dispatch (Dispatch In)
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE Loop + Port Combinations - Dispatch Out - Non-Dispatch - Dispatch In - Switch-Based	• Retail Residence and Business - Dispatch Out - Non-Dispatch - Dispatch In - Switch-Based
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• UNE Combo Other - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence, Business and Design Dispatch (Including Dispatch In and Dispatch Out) - Dispatch - Non-Dispatch (Dispatch In)
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN (Includes UDC)	• Retail ISDN - BRI
• UNE Line Sharing	• ADSL Provided to Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice
• Local Interconnection Trunks	• Parity with Retail

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## P-4: Average Completion Interval (OCI) & Order Completion Interval Distribution

### Definition

The “average completion interval” measure monitors the interval of time it takes BellSouth to provide service for the CLEC or its own customers. The “Order Completion Interval Distribution” provides the percentages of orders completed within certain time periods. This report measures how well BellSouth meets the interval offered to customers on service orders.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.). Order types may be N, C or T.
- Disconnect (D&F) orders (Except “D” orders associated with LNP Standalone)
- “L” Appointment coded orders (where the customer has requested a later than offered interval)
- End User-Caused misses.

### Business Rules

The actual completion interval is determined for each order processed during the reporting period. The completion interval is the elapsed time from when BellSouth issues a FOC or SOCS date time stamp receipt of an order from the CLEC to BellSouth’s actual order completion date. The clock starts when a valid order number is assigned by SOCS and stops when the technician or system completes the order in SOCS. Elapsed time for each order is accumulated for each reporting dimension. The accumulated time for each reporting dimension is then divided by the associated total number of orders completed. Orders that are worked on zero due dates are calculated with a .33-day interval (8 hours) in order to report a portion of a day interval. These orders are issued and worked/completed on the same day. They can be either flow through orders (no field work-non-dispatched) or field orders (dispatched).

The interval breakout for UNE and Design is: 0-5 = 0-≤ 5, 5-10 = >5-≤ 10, 10-15 = >10-≤ 15, 15-20 = >15-≤ 20, 20-25 = >20-≤ 25, 25-30 = >25-≤ 30, and > 30.

### Calculation

**Completion Interval** = (a - b)

- a = Completion Date
- b = FOC/SOCS Date/Time Stamp (Application Date)

**Average Completion Interval** = (c ÷ d)

- c = Sum of all Completion Intervals
- d = Count of Orders Completed in Reporting Period

**Order Completion Interval Distribution** (for each interval) = (e ÷ f) X 100

- e = Service Orders Completed in “X” days
- f = Total Service Orders Completed in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Dispatch/Non-Dispatch categories applicable to all levels except trunks
- Residence & Business reported in day intervals = 0,1,2,3,4,5,5+
- UNE and Design reported in day intervals of 0-5 = 0-≤ 5, 5-10 = >5-≤ 10, 10-15 = >10-≤ 15, 15-20 = >15-≤ 20, 20-25 = >20-≤ 25, 25-30 = >25-≤ 30, and >30.
- All Levels are reported <10 line/circuits; ≥ 10 line/circuits (except trunks)
- ISDN Orders included in Non-Design

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Company Name</li> <li>• Order Number (PON)</li> <li>• Application Date &amp; Time (TICKET_ID)</li> <li>• Completion Date (CMPLTN_DT)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number</li> <li>• Application Date &amp; Time</li> <li>• Order Completion Date &amp; Time</li> <li>• Service Type</li> <li>• Geographic Scope</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP	• Retail Residence and Business (POTS)
• 2W Analog Loop Design	• Retail Residence and Business Dispatch + 2 Days
• 2W Analog Loop Non-Design <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul>	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul>
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE Loop + Port Combinations <ul style="list-style-type: none"> <li>- Dispatch Out</li> <li>- Non-Dispatch</li> <li>- Dispatch In</li> <li>- Switch-Based</li> </ul>	• Retail Residence and Business <ul style="list-style-type: none"> <li>- Dispatch Out</li> <li>- Non-Dispatch</li> <li>- Dispatch In</li> <li>- Switch-Based</li> </ul>
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• UNE Combo Other <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul>	• Retail Residence, Business and Design Dispatch (Including Dispatch In and Dispatch Out) <ul style="list-style-type: none"> <li>- Dispatch</li> <li>- Non-Dispatch (Dispatch In)</li> </ul>
• UNE xDSL (HDSL, ADSL and UCL) without Conditioning	• 7 Days
• UNE xDSL (HDSL, ADSL and UCL) with Conditioning	• 14 Days
• UNE ISDN (Includes UDC)	• Retail ISDN BRI
• UNE Line Sharing	• ADSL Provided to Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
• Local Interconnection Trunks	• Parity with Retail

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## P-5: Average Completion Notice Interval

### Definitions

The Completion Notice Interval is the elapsed time between the BellSouth reported completion of work and the issuance of a valid completion notice to the CLEC.

### Exclusions

- Cancelled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.). Order types may be N, C or T.
- D&F orders (Exception: "D" orders associated with LNP Standalone)

### Business Rules

Measurement on interval of completion date and time entered by a field technician on dispatched orders, and 5PM start time on the due date for non-dispatched orders; to the release of a notice to the CLEC/BellSouth of the completion status. The field technician notifies the CLEC the work was complete and then he/she enters the completion time stamp information in his/her computer. This information switches through to the SOCS systems either completing the order or rejecting the order to the Work Management Center (WMC). If the completion is rejected, it is manually corrected and then completed by the WMC. The notice is returned on each individual order.

The start time for all orders is the completion stamp either by the field technician or the 5PM due date stamp; the end time for mechanized orders is the time stamp the notice was transmitted to the CLEC interface (LENS, EDI, OR TAG). For non-mechanized orders the end timestamp will be timestamp of order update to C-SOTS system.

### Calculation

**Completion Notice Interval** = (a - b)

- a = Date and Time of Notice of Completion
- b = Date and Time of Work Completion

**Average Completion Notice Interval** = c ÷ d

- c = Sum of all Completion Notice Intervals
- d = Number of Orders with Notice of Completion in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Mechanized Orders
- Non-Mechanized Orders
- Reporting intervals in Hours; 0,1-2,2-4,4-8,8-12,12-24, ≥ 24 plus Overall Average Hour Interval (The categories are inclusive of these time intervals: 0-1 = 0-≤1; 1-2 = >1-≤2; 2-4 = >2-≤4, etc.)
- Reported in categories of <10 line / circuits; ≥ 10 line/circuits (except trunks)



**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number (so_nbr)</li> <li>• Work Completion Date (cmpltm_dt)</li> <li>• Work Completion Time</li> <li>• Completion Notice Availability Date</li> <li>• Completion Notice Availability Time</li> <li>• Service Type</li> <li>• Geographic Scope</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number (so_nbr)</li> <li>• Work Completion Date (cmpltm_dt)</li> <li>• Work Completion Time</li> <li>• Completion Notice Availability Date</li> <li>• Completion Notice Availability Time</li> <li>• Service Type</li> <li>• Geographic Scope</li> </ul>
<p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<p><b>NOTE:</b> Code in parentheses is the corresponding header found in the raw data file.</p>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• LNP	• Retail Residence and Business (POTS)
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) - Dispatch - Non-Dispatch (Dispatch In)
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE Loop + Port Combinations - Dispatch Out - Non-Dispatch - Dispatch In - Switch-Based	• Retail Residence and Business - Dispatch Out - Non-Dispatch - Dispatch In - Switch-Based
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• UNE Combo Other - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence and Business and Design Dispatch (Including Dispatch In and Dispatch Out) - Dispatch - Non-Dispatch (Dispatch In)
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN (Includes UDC)	• Retail ISDN BRI
• UNE Line Sharing	• ADSL Provided to Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice
• Local Interconnection Trunks	• Parity with Retail

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## P-6: Coordinated Customer Conversions Interval

### Definition

This report measures the average time it takes BellSouth to disconnect an unbundled loop from the BellSouth switch and cross connect it to CLEC equipment. This measurement applies to service orders with INP and with LNP, and where the CLEC has requested BellSouth to provide a coordinated cut over.

### Exclusions

- Any order canceled by the CLEC will be excluded from this measurement.
- Delays due to CLEC following disconnection of the unbundled loop
- Unbundled Loops where there is no existing subscriber loop and loops where coordination is not requested.

### Business Rules

When the service order includes INP, the interval includes the total time for the cut over including the translation time to place the line back in service on the ported line. When the service order includes LNP, the interval only includes the total time for the cut over (the port of the number is controlled by the CLEC). If IDLC is involved, a four-hour window applies to the start time (8 A.M. to Noon or 1 P.M. to 5 P.M.) This applies if BellSouth notifies the CLEC by 10:30 A.M. on the day before the due date that the service is on IDLC.

### Calculation

**Coordinated Customer Conversions Interval** = (a - b)

- a = Completion Date and Time for Cross Connection of a Coordinated Unbundled Loop
- b = Disconnection Date and Time of an Coordinated Unbundled Loop

**Percent Coordinated Customer Conversions** (for each interval) = (c ÷ d) X 100

- c = Total number of Coordinated Customer Conversions for each interval
- d = Total Number of Unbundled Loop with Coordinated Conversions (items) for the reporting period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- The interval breakout is 0-5 = 0-≤5, 5-15 = >5-≤15, >15 = 15 and greater, plus Overall Average Interval.

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number</li> <li>• Committed Due Date (DD)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Cut over Start Time</li> <li>• Cut over Completion Time</li> <li>• Portability Start and Completion Times (INP orders)</li> <li>• Total Conversions (Items)</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• No BellSouth Analog Exists</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Unbundled Loops with INP</li> <li>• Unbundled Loops with LNP</li> </ul>	<ul style="list-style-type: none"> <li>• 95% ≤ 15 minutes</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"><li>• Unbundled Loops</li></ul>	<ul style="list-style-type: none"><li>• 95% ≤ 15 minutes</li></ul>

## P-6A: Coordinated Customer Conversions – Hot Cut Timeliness% Within Interval and Average Interval

### Definition

This category measures whether BellSouth begins the cut over of an unbundled loop on a coordinated and/or a time specific order at the CLEC requested start time. It measures the percentage of orders where the cut begins within 15 minutes of the requested start time of the order and the average interval.

### Exclusions

- Any order canceled by the CLEC will be excluded from this measurement.
- Delays caused by the CLEC
- Unbundled Loops where there is no existing subscriber loop and loops where coordination is not requested.
- All unbundled loops on multiple loop orders after the first loop.

### Business Rules

This report measures whether BellSouth begins the cut over of an unbundled loop on a coordinated and/or a time specific order at the CLEC requested start time. The cut is considered on time if it starts 15 minutes before or after the requested start time. Using the scheduled time and the actual cut over start time, the measurement will calculate the percent within interval and the average interval. If a cut involves multiple lines, the cut will be considered “on time” if the first line is cut within the interval. ≤ 15 minutes includes intervals that began 15:00 minutes or less before the scheduled cut time and cuts that began 15 minutes or less after the scheduled cut time; >15 minutes, ≤30 minutes includes cuts within 15:00 – 30:00 minutes either prior to or after the scheduled cut time; >30 minutes includes cuts greater than 30:00 minutes either prior to or after the scheduled cut time.

### Calculation

$$\% \text{ within Interval} = (a \div b) \times 100$$

- a = Total Number of Coordinated Unbundled Loop Orders for the interval
- b = Total Number of Coordinated Unbundled Loop Orders for the reporting period

$$\text{Interval} = (c - d)$$

- c = Scheduled Time for Cross Connection of a Coordinated Unbundled Loop Order
- d = Actual Start Date and Time of a Coordinated Unbundled Loop Order

$$\text{Average Interval} = (e \div f)$$

- Sum of all Intervals
- Total Number of Coordinated Unbundled Loop Orders for the reporting period.

### Report Structure

- CLEC Specific
- CLEC Aggregate
- Reported in intervals of early, on time and late cuts %≤ 15 minutes; % >15 minutes, ≤30 minutes; % >30 minutes, plus Overall Average Interval

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number (so_nbr)</li> <li>• Committed Due Date (DD)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Cut over Scheduled Start Time</li> <li>• Cut over Actual Start Time</li> <li>• Total Conversions Orders</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• No BellSouth Analog exists</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Product Reporting Level                             <ul style="list-style-type: none"> <li>- SL1 Time Specific</li> <li>- SL1 Non-Time Specific</li> <li>- SL2 Time Specific</li> <li>- SL2 Non-Time Specific</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 95% Within + or – 15 minutes of Scheduled Start Time</li> </ul>
<ul style="list-style-type: none"> <li>- SL1 IDLC</li> <li>- SL2 IDLC</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Within 4-hour Window</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>- UNE Loops</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Within + or – 15 minutes of Scheduled Start time</li> </ul>
<ul style="list-style-type: none"> <li>- SL1 IDLC</li> <li>- SL2 IDLC</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Within 4-hour Window</li> </ul>

P-6A: Coordinated Customer Conversions – Hot Cut Timeliness% Within Interval and Average Interval

## P-6B: Coordinated Customer Conversions – Average Recovery Time

### Definition

Measures the time between notification and resolution by BellSouth of a service outage found that can be isolated to the BellSouth side of the network. The time between notification and resolution by BellSouth must be measured to ensure that CLEC customers do not experience unjustifiable lengthy service outages during a Coordinated Customer Conversion. This report measures outages associated with Coordinated Customer Conversions prior to service order completion.

### Exclusions

- Cut overs where service outages are due to CLEC caused reasons
- Cut overs where service outages are due to end-user caused reasons

### Business Rules

Measures the outage duration time related to Coordinated Customer Conversions from the initial trouble notification until the trouble has been restored and the CLEC has been notified. The duration time is defined as the time from the initial trouble notification until the trouble has been restored and the CLEC has been notified. The interval is calculated on the total outage time for the circuits divided by the total number of outages restored during the report period to give the average outage duration.

### Calculation

**Recovery Time** = (a - b)

- a = Date & Time That Trouble is Closed by CLEC
- b = Date & Time Initial Trouble is Opened with BellSouth

**Average Recovery Time** = (c ÷ d)

- c = Sum of all the Recovery Times
- d = Number of Troubles Referred to BellSouth

### Report Structure

- CLEC Specific
- CLEC Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Company Name</li> <li>• CLEC Order Number (so_nbr)</li> <li>• Committed Due Date (DD)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• CLEC Acceptance Conflict (CLEC_CONFLICT)</li> <li>• CLEC Conflict Resolved (CLEC_RESOLVE)</li> <li>• CLEC Conflict MFC (CLEC_CONFLICT_MFC)</li> <li>• Total Conversion Orders</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Unbundled Loops with INP</li> <li>• Unbundled Loops with LNP</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable



## P-6C: Hot Cut Conversions - % Provisioning Troubles Received Within 7 days of a completed Service Order

P-6C: Hot Cut Conversions - % Provisioning Troubles Received Within 7 days of a completed Service Order

### Definition

Percent Provisioning Troubles received within 7 days of a completed service order associated with a Coordinated and Non-Coordinated Customer Conversion. Measures the quality and accuracy of Hot Cut Conversion Activities.

### Exclusions

- Any order canceled by the CLEC
- Troubles caused by Customer Provided Equipment
- LMOS - Code 7 (Test OK), Code 8 (Found OK-In), Code 9 (Found OK-Out)
- WFA - No Trouble Found (NTF)

### Business Rules

Measures the quality and accuracy of completed service orders associated with Coordinated and Non-Coordinated Hot Cut Conversions. The first trouble report received on a circuit ID within 7 days following a service order completion is counted in this measure. Subsequent trouble reports are measured in Repeat Report Rate. Reports are calculated searching in the prior report period for completed Coordinated and Non-Coordinated Hot Cut Conversion service orders and following 7 days after the completion of the service order for a trouble report issue date.

### Calculation

**% Provisioning Troubles within 7 days of service order completion** =  $(a \div b) \times 100$

- a = The sum of all Hot Cut Circuits with a trouble within 7 days following service order(s) completion
- b = The total number of Hot Cut service order circuits completed in the previous report calendar month

### Report Structure

- CLEC Specific
- CLEC Aggregate
- Dispatch/Non-Dispatch

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number (so_nbr)</li> <li>• PON</li> <li>• Order Submission Date (TICKET_ID)</li> <li>• Order Submission Time (TICKET_ID)</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> <li>• Geographic Scope</li> <li>• Total Conversion Circuits</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• No BellSouth Analog exists</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	SQM Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• UNE Loop Design</li> <li>• UNE Loop Non-Design</li> </ul>	<ul style="list-style-type: none"> <li>• ≤ 5%</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• UNE Loops	• ≤ 5%

## P-7: Cooperative Acceptance Testing - % of xDSL Loops Tested

### Definition

The loop will be considered cooperatively tested when the BellSouth technician places a call to the CLEC representative to initiate cooperative testing and jointly performs the tests with the CLEC.

### Exclusions

- Testing failures due to CLEC (incorrect contact number, CLEC not ready, etc.)
- xDSL lines with no request for cooperative testing

### Business Rules

When a BellSouth technician finishes delivering an order for an xDSL loop where the CLEC order calls for cooperative testing at the customer's premise, the BellSouth technician is to call a toll free number to the CLEC testing center. The BellSouth technician and the CLEC representative at the center then test the line. As an example of the type of testing performed, the testing center may ask the technician to put a short on the line so that the center can run a test to see if it can identify the short.

### Calculation

**Cooperative Acceptance Testing - % of xDSL Loops Tested** =  $(a \div b) \times 100$

- a = Total number of successful xDSL cooperative tests for xDSL lines where cooperative testing was requested in the reporting period
- b = Total Number of xDSL line tests requested by the CLEC and scheduled in the reporting period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- Type of Loop Tested

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Company Name (OCN)</li> <li>• CLEC Order Number (so_nbr) and PON (PON)</li> <li>• Committed Due Date (DD)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Acceptance Testing Completed (ACCEPT_TESTING)</li> <li>• Acceptance Testing Declined (ACCEPT_TESTING)</li> <li>• Total xDSL Orders</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• No BellSouth analog exists</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation:	Retail Analog/Benchmark:
<ul style="list-style-type: none"> <li>• UNE xDSL                             <ul style="list-style-type: none"> <li>- ADSL</li> <li>- HDSL</li> <li>- UCL</li> <li>- OTHER</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• 95% of Lines Tested</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation:	SEEM Analog/Benchmark:
<ul style="list-style-type: none"><li>• UNE xDSL</li></ul>	<ul style="list-style-type: none"><li>• 95% of Lines Tested</li></ul>

P-7: Cooperative Acceptance Testing - % of xDSL Loops Tested

## P-8: % Provisioning Troubles within 30 days of Service Order Completion

### Definition

Percent Provisioning Troubles within 30 days of Service Order Completion measures the quality and accuracy of Service order activities.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.). Order types may be N, C or T.
- D & F orders
- Trouble reports caused and closed out to Customer Provided Equipment (CPE)

### Business Rules

Measures the quality and accuracy of completed orders. The first trouble report from a service order after completion is counted in this measure. Subsequent trouble reports are measured in Repeat Report Rate. Reports are calculated searching in the prior report period for completed service orders and following 30 days after completion of the service order for a trouble report issue date.

D & F orders are excluded as there is no subsequent activity following a disconnect.

### Calculation

**% Provisioning Troubles within 30 days of Service Order Activity** =  $(a \div b) \times 100$

- a = Trouble reports on all completed orders 30 days following service order(s) completion
- b = All Service Orders completed in the previous report calendar month

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Reported in categories of <10 line/circuits; ≥ 10 line/circuits (except trunks)
- Dispatch/Non-Dispatch (except trunks)

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number and PON</li> <li>• Order Submission Date (TICKET_ID)</li> <li>• Order Submission Time (TICKET_ID)</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number</li> <li>• Order Submission Date</li> <li>• Order Submission Time</li> <li>• Status Type</li> <li>• Status Notice Date</li> <li>• Standard Order Activity</li> <li>• Geographic Scope</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence and Business - (POTS Excluding Switch-Based Orders) - Dispatch - Non-Dispatch (Dispatch In)
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL provided to Retail
• UNE ISDN (Includes UDC)	• Retail ISDN BRI
• UNE Line Sharing	• ADSL Provided to Retail
• UNE Loop + Port Combinations - Dispatch Out - Non-Dispatch - Dispatch In - Switch-Based	• Retail Residence and Business - Dispatch Out - Non-Dispatch - Dispatch In - Switch-Based
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• UNE Combo Other - Dispatch - Non-Dispatch (Dispatch In)	• Retail Residence, Business and Design Dispatch (Including Dispatch Out and Dispatch In) - Dispatch - Non-Dispatch (Dispatch In)
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice
• Local Interconnection Trunks	• Parity with Retail

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## P-9: Total Service Order Cycle Time (TSOCT)

### Definition

This report measures the total service order cycle time from receipt of a valid service order request to the return of a completion notice to the CLEC Interface.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.). Order types may be N, C or T.
- D (Disconnect - Except "D" orders associated with LNP Standalone) and F (From) orders. (From is disconnect side of a move order when the customer moves to a new address).
- "L" Appointment coded orders (where the customer has requested a later than offered interval)
- Orders with CLEC/Subscriber caused delays or CLEC/Subscriber requested due date changes.

### Business Rules

The interval is determined for each order processed during the reporting period. This measurement combines three reports: FOC Timeliness, Average Order Completion Interval and Average Completion Notice Interval. For UNE XDSL Loop, this measurement combines Service Inquiry Interval (SI), FOC Timeliness, Average Completion Interval, and Average Completion Notice Interval.

This interval starts with the receipt of a valid service order request and stops when a completion notice is sent to the CLEC Interface (LENS, TAG OR EDI) and the BellSouth Legacy Systems. Elapsed time for each order is accumulated for each reporting dimension. The accumulated time for each reporting dimension is then divided by the associated total number of orders completed. Orders that are worked on zero due dates are calculated with a .33 day interval (8 hours) in order to report a portion of a day interval. These orders are issued and worked/completed on same day. They can be either flow through orders (no field work-non-dispatched) or field orders (dispatched).

Reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs.

### Calculation

**Total Service Order Cycle Time** = (a - b)

- a = Service Order Completion Notice Date
- b = Service Request Receipt Date

**Average Total Service Order Cycle Time** = (c ÷ d)

- c = Sum of all Total Service Order Cycle Times
- d = Total Number Service Orders Completed in Reporting Period

**Total Service Order Cycle Time Interval Distribution** (for each interval) = (e ÷ f) X 100

- e = Total Number of Service Requests Completed in "X" minutes/hours
- f = Total Number of Service Requests Received in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Fully Mechanized; Partially Mechanized; Non-Mechanized
- Report in categories of <10 line/circuits; ≥ 10 line/circuits (except trunks)
- Dispatch/Non-Dispatch categories applicable to all levels except trunks
- Intervals 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, ≥ 30 Days. The interval breakout is: 0-5 = 0-≤5, 5-10 = >5-≤10, 10-15 = >10-≤15, 15-20 = >15-≤20, 20-25 = >20-≤25, 25-30 = >25-≤30, and >30.

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Interval for FOC</li> <li>• CLEC Company Name (OCN)</li> <li>• Order Number (PON)</li> <li>• Submission Date &amp; Time (TICKET_ID)</li> <li>• Completion Date (CMLPTN_DT)</li> <li>• Completion Notice Date and Time</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Geographic Scope</li> </ul> <p>Note: Code in parentheses is the corresponding header found in the raw data file</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Order Number</li> <li>• Order Submission Date &amp; Time</li> <li>• Order Completion Date &amp; Time</li> <li>• Service Type</li> <li>• Geographic Scope</li> </ul>

P-9: Total Service Order Cycle Time (TSOCT)

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Resale Residence</li> <li>• Resale Business</li> <li>• Resale Design</li> <li>• Resale PBX</li> <li>• Resale Centrex</li> <li>• Resale ISDN</li> <li>• LNP</li> <li>• 2W Analog Loop Design</li> <li>• 2W Analog Loop Non-Design</li> <li>• UNE Switch Ports</li> <li>• UNE Loop + Port Combinations</li> <li>• UNE Combo Other</li> <li>• UNE xDSL (HDSL, ADSL and UCL)</li> <li>• UNE ISDN</li> <li>• UNE Line Sharing</li> <li>• UNE Other Design</li> <li>• UNE Other Non -Design</li> <li>• UNE Digital Loops &lt; DS1</li> <li>• UNE Digital Loops ≥ DS1</li> <li>• Local Transport (Unbundled Interoffice Transport)</li> <li>• Local Interconnection Trunks</li> </ul>	<ul style="list-style-type: none"> <li>• Diagnostic</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>



## P-10: LNP-Average Disconnect Timeliness Interval & Disconnect Timeliness Interval Distribution

### Definition

Disconnect Timeliness is defined as the interval between the time ESI Number Manager receives the valid 'Number Ported' message from NPAC (signifying the CLEC 'Activate') until the time the Disconnect is completed in the Central Office switch. This interval effectively measures BellSouth responsiveness by isolating it from impacts that are caused by CLEC related activities.

### Exclusions

- Canceled Service Orders
- Order Activities of BellSouth or the CLEC associated with internal or administrative use of local services (Record Orders, Listing Orders, Test Orders, etc.) where identifiable. Order types may be N, C or T.

### Business Rules

The Disconnect Timeliness interval is determined for each telephone number on the LSR after the last telephone number has been ported during the reporting period. The Disconnect Timeliness interval is the elapsed time from BellSouth's receipt of a valid 'Number Ported' message on the last telephone number ported until each telephone number is disconnected in the Central Office switch. The CLEC provides the 'Number Ported' message (signifying the CLEC 'Activate') in the ESI Number Manager interface. Elapsed time for each ported telephone number is accumulated for each reporting dimension. The accumulated time for each reporting dimension is then divided by the total number of selected telephone numbers disconnected in the reporting period.

### Calculation

**Disconnect Timeliness Interval** = (a - b)

- a = Completion Date and Time in Central Office switch for each number on disconnect order
- b = Valid 'Number Ported' message received date & time

**Average Disconnect Timeliness Interval** = (c ÷ d)

- c = Sum of all Disconnect Timeliness Intervals
- d = Total Number of disconnected numbers completed in reporting period

**Disconnect Timeliness Interval Distribution** (for each interval) = (e ÷ f) X 100

- e = Disconnected numbers completed in "X" days
- f = Total disconnect numbers completed in reporting period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- Geographic Scope
  - State, Region
- Intervals of ≤24 hours, >24 hours and Average Interval

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Order Number</li> <li>• Telephone Number / Circuit Number</li> <li>• Committed Due Date</li> <li>• Receipt Date / Time (ESI Number Manager)</li> <li>• Date/Time of Recent Change Notice</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation:	SQM Retail Analog/Benchmark:
• LNP	• 95% within 24 hours

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• LNP	• 95% within 24 hours

P-10: LNP Average Disconnect Timeliness Interval & Disconnect Timeliness Interval Distribution

## Section 4: Maintenance & Repair

### M&R-1: Missed Repair Appointments

#### Definition

The percent of trouble reports not cleared by the committed date and time.

#### Exclusions

- Trouble tickets canceled at the CLEC request.
- BellSouth trouble reports associated with internal or administrative service.
- Customer Provided Equipment (CPE) troubles or CLEC Equipment Trouble.
- LMOS - Code 7 (Test OK), Code 8 (Found OK- In), Code 9 (Found OK- Out)
- WFA - No Trouble Found (NTF)

#### Business Rules

The negotiated commitment date and time is established when the repair report is received. The cleared time is the date and time that BellSouth personnel clear the trouble and closes the trouble report in his/her Computer Access Terminal (CAT) or workstation. If this is after the Commitment time, the report is flagged as a "Missed Commitment" or a missed repair appointment. When the data for this measure is collected for BellSouth and a CLEC, it can be used to compare the percentage of the time repair appointments are missed due to BellSouth reasons. (No access reports are not part of this measure because they are not a missed appointment.)

**Note:** Appointment intervals vary with force availability in the POTS environment. Specials and Trunk intervals are standard interval appointments of no greater than 24 hours.

#### Calculation

**Percentage of Missed Repair Appointments** =  $(a \div b) \times 100$

- a = Count of Customer Troubles Not Cleared by the Quoted Commitment Date and Time
- b = Total Trouble reports closed in Reporting Period

#### Report Structure

- Dispatch / Non-Dispatch
- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

#### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Company Name</li> <li>• Submission Date &amp; Time (TICKET_ID)</li> <li>• Completion Date (CMLTN_DT)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Disposition and Cause (CAUSE_CD &amp; CAUSE_DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Company Code</li> <li>• Submission Date &amp; Time</li> <li>• Completion Date</li> <li>• Service Type</li> <li>• Disposition and Cause (Non-Design /Non-Special Only)</li> <li>• Trouble Code (Design and Trunking Services)</li> <li>• Geographic Scope</li> </ul>

**SQM Disaggregation - Retail Analog/Benchmark**

SQM Level of Disaggregation	SQM Retail Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design	• Retail Residence and Business (POTS) (Exclusion of Switch-Based Feature Troubles)
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN – BRI
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## M&R-2: Customer Trouble Report Rate

### Definition

Percent of initial and repeated customer direct or referred troubles reported within a calendar month per 100 lines/circuits in service.

### Exclusions

- Trouble tickets canceled at the CLEC request.
- BellSouth trouble reports associated with internal or administrative service.
- Customer Provided Equipment (CPE) troubles or CLEC Equipment Trouble.
- LMOS - Code 7 (Test OK), Code 8 (Found OK- In), Code 9 (Found OK- Out)
- WFA - No Trouble Found (NTF)

### Business Rules

Customer Trouble Report Rate is computed by accumulating the number of maintenance initial and repeated trouble reports during the reporting period. The resulting number of trouble reports are divided by the total "number of service" lines, ports or combination that exist for the CLECs and BellSouth respectively at the end of the report month.

### Calculation

$$\text{Customer Trouble Report Rate} = (a \div b) \times 100$$

- a = Count of Initial and Repeated Trouble Reports closed in the Current Period
- b = Number of Service Access Lines in service at End of the Report Period

### Report Structure

- Dispatch/Non-Dispatch
- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Company Name</li> <li>• Ticket Submission Date &amp; Time (TICKET_ID)</li> <li>• Ticket Completion Date (Cmpltn_DT)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Disposition and Cause (CAUSE_CD &amp; CAUSE_DESC)</li> <li>• # Service Access Lines in Service at the end of period</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• BellSouth Company Code</li> <li>• Ticket Submission Date &amp; Time</li> <li>• Ticket Completion Date</li> <li>• Service Type</li> <li>• Disposition and Cause (Non-Design /Non-Special Only)</li> <li>• Trouble Code (Design and Trunking Services)</li> <li>• # Service Access Lines in Service at the end of period</li> <li>• Geographic Scope</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale ISDN	• Retail ISDN
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design	• Retail Residence and Business (POTS) (Exclusion of Switch-Based Feature Troubles)
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN – BRI
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## M&R-3: Maintenance Average Duration

### Definition

The Average duration of Customer Trouble Reports from the receipt of the Customer Trouble Report to the time the trouble report is cleared.

### Exclusions

- Trouble tickets canceled at the CLEC request.
- BellSouth trouble reports associated with internal or administrative service.
- Customer Provided Equipment (CPE) troubles or CLEC Equipment Trouble.
- LMOS - Code 7 (Test OK), Code 8 (Found OK- In), Code 9 (Found OK- Out)
- WFA - No Trouble Found (NTF)

### Business Rules

For Average Duration the clock starts on the date and time of the receipt of a correct repair request. The clock stops on the date and time the service is restored and the BellSouth or CLEC customer is notified (when the technician completes the trouble ticket on his/her CAT or work systems).

### Calculation

**Maintenance Duration** = (a - b)

- a = Date and Time of Service Restoration
- b = Date and Time Trouble Ticket was Opened

**Average Maintenance Duration** = (c ÷ d)

- c = Total of all maintenance durations in the reporting period
- d = Total Closed Troubles in the reporting period

### Report Structure

- Dispatch/Non-Dispatch
- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience:	Relating to BellSouth Performance:
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets (LINE_NBR)</li> <li>• CLEC Company Name</li> <li>• Ticket Submission Date &amp; Time (TICKET_ID)</li> <li>• Ticket Completion Date (CMPLIN_DT)</li> <li>• Service Type (CLASS_SVC_DESC)</li> <li>• Disposition and Cause (CAUSE_CD &amp; CAUSE_DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets</li> <li>• BellSouth Company Code</li> <li>• Ticket Submission Date</li> <li>• Ticket Submission Time</li> <li>• Ticket Completion Date</li> <li>• Ticket Completion Time</li> <li>• Total Duration Time</li> <li>• Service Type</li> <li>• Disposition and Cause (Non-Design /Non-Special Only)</li> <li>• Trouble Code (Design and Trunking Services)</li> <li>• Geographic Scope</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design	• Retail Residence and Business (POTS) (Exclusion of Switch-Based Feature Troubles)
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN – BRI
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail



## M&R-4: Percent Repeat Troubles within 30 Days

### Definition

Closed trouble reports on the same line/circuit as a previous trouble report received within 30 calendar days as a percent of total troubles closed.

### Exclusions

- Trouble tickets canceled at the CLEC request.
- BellSouth trouble reports associated with internal or administrative service.
- Customer Provided Equipment (CPE) troubles or CLEC Equipment Trouble.
- LMOS - Code 7 (Test OK), Code 8 (Found OK- In), Code 9 (Found OK- Out)
- WFA - No Trouble Found (NTF)

### Business Rules

Includes Customer trouble reports received within 30 days of an original Customer trouble report

### Calculation

$$\text{Percent Repeat Troubles within 30 Days} = (a \div b) \times 100$$

- a = Count of closed Customer Troubles where more than one trouble report was logged for the same service line within a continuous 30 days
- b = Total Trouble Reports Closed in Reporting Period

### Report Structure

- Dispatch/Non-Dispatch
- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets (LINE_NBR)</li> <li>• CLEC Company Name</li> <li>• Ticket Submission Date &amp; Time (TICKET_ID)</li> <li>• Ticket Completion Date (CMLTN_DT)</li> <li>• Total and Percent Repeat Trouble Reports within 30 Days (TOT_REPEAT)</li> <li>• Service Type</li> <li>• Disposition and Cause (CAUSE_CD &amp; CAUSE_DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets</li> <li>• BellSouth Company Code</li> <li>• Ticket Submission Date</li> <li>• Ticket Submission Time</li> <li>• Ticket Completion Date</li> <li>• Ticket Completion Time</li> <li>• Total and Percent Repeat Trouble Reports within 30 Days</li> <li>• Service Type</li> <li>• Disposition and Cause (Non-Design /Non-Special Only)</li> <li>• Trouble Code (Design and Trunking Services)</li> <li>• Geographic Scope</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale Centrex	• Retail Centrex
• Resale ISDN	• Retail ISDN
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design	• Retail Residence and Business (POTS) (Exclusion of Switch-Based Feature Troubles)
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN – BRI
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Resale POTS	• Retail Residence and Business (POTS)
• Resale Design	• Retail Design
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Loops	• Retail Residence and Business Dispatch
• UNE xDSL	• ADSL Provided to Retail
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail

## M&R-5: Out of Service (OOS) > 24 Hours

### Definition

For Out of Service Troubles (no dial tone, cannot be called or cannot call out) the percentage of Total OOS Troubles cleared in excess of 24 hours. (All design services are considered to be out of service).

### Exclusions

- Trouble Reports canceled at the CLEC request
- BellSouth Trouble Reports associated with administrative service
- Customer Provided Equipment (CPE) Troubles or CLEC Equipment Troubles.

### Business Rules

Customer Trouble reports that are out of service and cleared in excess of 24 hours. The clock begins when the trouble report is created in LMOS/WFA and the trouble is counted if the elapsed time exceeds 24 hours.

### Calculation

**Out of Service (OOS) > 24 hours** =  $(a \div b) \times 100$

- a = Total Cleared Troubles OOS > 24 Hours
- b = Total OOS Troubles in Reporting Period

### Report Structure

- Dispatch/Non-Dispatch
- CLEC Specific
- BellSouth Aggregate
- CLEC Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets</li> <li>• CLEC Company Name</li> <li>• Ticket Submission Date &amp; Time (TICKET_ID)</li> <li>• Ticket Completion Date (CMPLTN_DT)</li> <li>• Percentage of Customer Troubles out of Service &gt; 24 Hours (OOS&gt;24_FLAG)</li> <li>• Service type (CLASS_SVC_DESC)</li> <li>• Disposition and Cause (CAUSE_CD &amp; CAUSE-DESC)</li> <li>• Geographic Scope</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Tickets</li> <li>• BellSouth Company Code</li> <li>• Ticket Submission Date</li> <li>• Ticket Submission time</li> <li>• Ticket Completion Date</li> <li>• Ticket Completion Time</li> <li>• Percent of Customer Troubles out of Service &gt; 24 Hours</li> <li>• Service type</li> <li>• Disposition and Cause (Non-Design/Non-Special only)</li> <li>• Trouble Code (Design and Trunking Services)</li> <li>• Geographic Scope</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale Residence	• Retail Residence
• Resale Business	• Retail Business
• Resale Design	• Retail Design
• Resale PBX	• Retail PBX
• Resale Centrex	• Retail Centrex

SQM Level of Disaggregation	SQM Analog/Benchmark
• Resale ISDN	• Retail ISDN
• 2W Analog Loop Design	• Retail Residence and Business Dispatch
• 2W Analog Loop Non-Design	• Retail Residence and Business (POTS) (Exclusion of Switch-Based Feature Troubles)
• UNE Digital Loop < DS1	• Retail Digital Service < DS1
• UNE Digital Loop ≥ DS1	• Retail Digital Service ≥ DS1
• UNE Loop + Port Combinations	• Retail Residence and Business
• UNE Switch Ports	• Retail Residence and Business (POTS)
• UNE Other Design	• Retail Design
• UNE Other Non-Design	• Retail Residence and Business
• UNE Combo Other	• Retail Residence, Business and Design Dispatch
• UNE xDSL (HDSL, ADSL and UCL)	• ADSL Provided to Retail
• UNE ISDN	• Retail ISDN – BRI
• UNE Line Sharing	• ADSL Provided to Retail
• Local Interconnection Trunks	• Parity with Retail
• Local Transport (Unbundled Interoffice Transport)	• Retail DS1/DS3 Interoffice

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## M&R-6: Average Answer Time – Repair Centers

### Definition

This measures the average time a customer is in queue.

### Exclusions

None

### Business Rules

The clock starts when a CLEC Representative or BellSouth customer makes a choice on the Repair Center's menu and is put in queue for the next repair attendant. The clock stops when the repair attendant answers the call (abandoned calls are not included).

**Note:** The Total Column is a combined BellSouth Residence and Business number.

### Calculation

**Answer Time for BellSouth Repair Centers** = (a - b)

- a = Time BellSouth Repair Attendant Answers Call
- b = Time of entry into queue after ACD Selection

**Average Answer Time for BellSouth Repair Centers** = (c ÷ d)

- c = Sum of all Answer Times
- d = Total number of calls by reporting period

### Report Structure

- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
• CLEC Average Answer Time	• BellSouth Average Answer Time

### SQM Disaggregation - Analog / Benchmark

SQM Level of Disaggregation	Retail Analog / Benchmark
• Region. CLEC/BellSouth Service Centers and BellSouth Repair Centers are regional.	• For CLEC, Average Answer Times in <u>CWINS</u> Center and <u>BRMC</u> are comparable to the Average Answer Times in the BellSouth Repair Centers.

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

### SEEM Disaggregation - Analog/Benchmark

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## M&R-7: Mean Time To Notify CLEC of Network Outages

M&R-7: Mean Time To Notify CLEC of Network Outages

### Definition

This report measures the time it takes for the BellSouth Network Management Center (NMC) to notify the CLEC of major network outages.

### Exclusions

None

### Business Rules

BellSouth will inform the CLEC of any major network outages (key customer accounts) via a page or email. When the BellSouth NMC becomes aware of a network incident, the CLEC and BellSouth will be notified electronically. The notification time for each outage will be measured in minutes and divided by the number of outages for the reporting period. These are broadcast messages. It is up to those receiving the message to determine if they have customers affected by the incident.

The CLECs will be notified in accordance with the rules outlined in Appendix D of the CLEC "Customer Guide" which is published on the internet at: [www.interconnection.bellsouth.com/guides/other\\_guides/html/gopue/indexf.htm](http://www.interconnection.bellsouth.com/guides/other_guides/html/gopue/indexf.htm).

### Calculation

**Time to Notify CLEC = (a - b)**

- a = Date and Time BellSouth Notified CLEC
- b = Date and Time BellSouth Detected Network Incident

**Mean Time to Notify CLEC = (c ÷ d)**

- c = Sum of all Times to Notify CLEC
- d = Count of Network Incidents

### Report Structure

- BellSouth Aggregate
- CLEC Aggregate
- CLEC Specific

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Major Network Events</li> <li>• Date/Time of Incident</li> <li>• Date/Time of Notification</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Major Network Events</li> <li>• Date/Time of Incident</li> <li>• Date/Time of Notification</li> </ul>

### SQM Disaggregation - Analog / Benchmark

SQM Level of Disaggregation	Retail Analog / Benchmark
<ul style="list-style-type: none"> <li>• BellSouth Aggregate</li> <li>• CLEC Aggregate</li> <li>• CLEC Specific</li> </ul>	<ul style="list-style-type: none"> <li>• Parity by Design</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## Section 5: Billing

### B-1: Invoice Accuracy

#### Definition

This measure provides the percentage of accuracy of the billing invoices rendered to CLECs during the current month.

#### Exclusions

- Adjustments not related to billing errors (e.g., credits for service outage, special promotion credits, adjustments to satisfy the customer)
- Test Accounts

#### Business Rules

The accuracy of billing invoices delivered by BellSouth to the CLEC must enable them to provide a degree of billing accuracy comparative to BellSouth bills rendered to retail customers of BellSouth. CLECs request adjustments on bills determined to be incorrect. The BellSouth Billing verification process includes manually analyzing a sample of local bills from each bill period. The bill verification process draws from a mix of different customer billing options and types of service. An end-to-end auditing process is performed for new products and services. Internal measurements and controls are maintained on all billing processes.

#### Calculation

$$\text{Invoice Accuracy} = [(a - b) \div a] \times 100$$

- a = Absolute Value of Total Billed Revenues during current month
- b = Absolute Value of Billing Related Adjustments during current month

#### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Geographic Scope
  - Region
  - State

#### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Invoice Type                             <ul style="list-style-type: none"> <li>- UNE</li> <li>- Resale</li> <li>- Interconnection</li> </ul> </li> <li>• Total Billed Revenue</li> <li>• Billing Related Adjustments</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Retail Type                             <ul style="list-style-type: none"> <li>- CRIS</li> <li>- CABS</li> </ul> </li> <li>• Total Billed Revenue</li> <li>• Billing Related Adjustments</li> </ul>



**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Product / Invoice Type                             <ul style="list-style-type: none"> <li>- Resale</li> <li>- UNE</li> <li>- Interconnection</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• CLEC Invoice Accuracy is comparable to BellSouth Invoice Accuracy</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• CLEC State</li> <li>• BellSouth State</li> </ul>	<ul style="list-style-type: none"> <li>• Parity with Retail</li> </ul>

## B2: Mean Time to Deliver Invoices

### Definition

**Bill Distribution** is calculated as follows: **CRIS BILLS**-The number of workdays is reported for CRIS bills. This is calculated by counting the Bill Period date as the first work day. Weekends and holidays are excluded when counting workdays. J/N Bills are counted in the CRIS work day category for the purposes of the measurement since their billing account number (Q account) is provided from the CRIS system.

**CABS BILLS**-The number of calendar days is reported for CABS bills. This is calculated by counting the day following the Bill Period date as the first calendar day. Weekends and holidays are included when counting the calendar days.

### Exclusions

Any invoices rejected due to formatting or content errors.

### Business Rules

This report measures the mean interval for timeliness of billing records delivered to CLECs in an agreed upon format. CRIS-based invoices are measured in business days, and CABS-based invoices in calendar days.

### Calculation

**Invoice Timeliness** = (a - b)

- a = Invoice Transmission Date
- b = Close Date of Scheduled Bill Cycle

**Mean Time To Deliver Invoices** = (c ÷ d)

- c = Sum of all Invoice Timeliness intervals
- d = Count of Invoices Transmitted in Reporting Period

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Geographic Scope
  - Region
  - State

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Invoice Type                             <ul style="list-style-type: none"> <li>- UNE</li> <li>- Resale</li> <li>- Interconnection</li> </ul> </li> <li>• Invoice Transmission Count</li> <li>• Date of Scheduled Bill Close</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Invoice Type                             <ul style="list-style-type: none"> <li>- CRIS</li> <li>- CABS</li> </ul> </li> <li>• Invoice Transmission Count</li> <li>• Date of Scheduled Bill Close</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
Product / Invoice Type <ul style="list-style-type: none"> <li>• Resale</li> <li>• UNE</li> <li>• Interconnection</li> </ul>	<ul style="list-style-type: none"> <li>• CRIS-based invoices will be released for delivery within six (6) business days.</li> <li>• CABS-based invoices will be released for delivery within eight (8) calendar days.</li> <li>• CLEC Average Delivery Intervals for both CRIS and CABS Invoices are comparable to BellSouth Average delivery for both systems.</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• CLEC State                             <ul style="list-style-type: none"> <li>- CRIS</li> <li>- CABS</li> </ul> </li> <li>• BellSouth Region</li> </ul>	<ul style="list-style-type: none"> <li>• Parity with Retail</li> </ul>

## B3: Usage Data Delivery Accuracy

### Definition

This measurement captures the percentage of recorded usage that is delivered error free and in an acceptable format to the appropriate Competitive Local Exchange Carrier (CLEC). These percentages will provide the necessary data for use as a comparative measurement for BellSouth performance. This measurement captures Data Delivery Accuracy rather than the accuracy of the individual usage recording.

### Exclusions

None

### Business Rules

The accuracy of the data delivery of usage records delivered by BellSouth to the CLEC must enable them to provide a degree of accuracy comparative to BellSouth bills rendered to their retail customers. If errors are detected in the delivery process, they are investigated, evaluated and documented. Errors are corrected and the data retransmitted to the CLEC.

### Calculation

**Usage Data Delivery Accuracy** =  $(a - b) \div a \times 100$

- a = Total number of usage data packs sent during current month
- b = Total number of usage data packs requiring retransmission during current month

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Geographic Scope
  - Region

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type                             <ul style="list-style-type: none"> <li>- BellSouth Recorded</li> <li>- Non-BellSouth Recorded</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Region</li> </ul>	<ul style="list-style-type: none"> <li>• CLEC Usage Data Delivery Accuracy is comparable to BellSouth Usage Data Delivery Accuracy</li> </ul>

### SEEM Measure

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
<ul style="list-style-type: none"><li>• CLEC State</li><li>• BellSouth Region</li></ul>	<ul style="list-style-type: none"><li>• Parity with Retail</li></ul>

## B4: Usage Data Delivery Completeness

### Definition

This measurement provides percentage of complete and accurately recorded usage data (usage recorded by BellSouth and usage recorded by other companies and sent to BellSouth for billing) that is processed and transmitted to the CLEC within thirty (30) days of the message recording date. A parity measure is also provided showing completeness of BellSouth messages processed and transmitted via CMDS. BellSouth delivers its own retail usage from recording location to billing location via CMDS as well as delivering billing data to other companies. Timeliness, Completeness and Mean Time to Deliver Usage measures are reported on the same report.

### Exclusions

None

### Business Rules

The purpose of these measurements is to demonstrate the level of quality of usage data delivered to the appropriate CLEC. Method of delivery is at the option of the CLEC.

### Calculation

**Usage Data Delivery Completeness** =  $(a \div b) \times 100$

- a = Total number of Recorded usage records delivered during current month that are within thirty (30) days of the message recording date
- b = Total number of Recorded usage records delivered during the current month

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate
- Region

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type                             <ul style="list-style-type: none"> <li>- BellSouth Recorded</li> <li>- Non-BellSouth Recorded</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Region</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark <math>\geq</math> 98%</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

B4: Usage Data Delivery Completeness

## B5: Usage Data Delivery Timeliness

### Definition

This measurement provides a percentage of recorded usage data (usage recorded by BellSouth and usage recorded by other companies and sent to BellSouth for billing) that is delivered to the appropriate CLEC within six (6) calendar days from the receipt of the initial recording. A parity measure is also provided showing timeliness of BellSouth messages processed and transmitted via CMDS. Timeliness, Completeness and Mean Time to Deliver Usage measures are reported on the same report.

### Exclusions

None

### Business Rules

The purpose of this measurement is to demonstrate the level of timeliness for processing and transmission of usage data delivered to the appropriate CLEC. The usage data will be mechanically transmitted or mailed to the CLEC data processing center once daily. The Timeliness interval of usage recorded by other companies is measured from the date BellSouth receives the records to the date BellSouth distributes to the CLEC. Method of delivery is at the option of the CLEC.

### Calculation

**Usage Data Delivery Timeliness Current month** =  $(a \div b) \times 100$

- a = Total number of usage records sent within six (6) calendar days from initial recording/receipt
- b = Total number of usage records sent

### Report Structure

- CLEC Aggregate
- CLEC Specific
- BellSouth Aggregate
- Region

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type                             <ul style="list-style-type: none"> <li>- BellSouth Recorded</li> <li>- Non-BellSouth Recorded</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type</li> </ul>

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Region</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark <math>\geq 95\%</math></li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	



**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

## B6: Mean Time to Deliver Usage

### Definition

This measurement provides the average time it takes to deliver Usage Records to a CLEC. A parity measure is also provided showing timeliness of BellSouth messages processed and transmitted via CMDS. Timeliness, Completeness and Mean Time to Deliver Usage measures are reported on the same report.

### Exclusions

None

### Business Rules

The purpose of this measurement is to demonstrate the average number of days it takes BellSouth to deliver Usage data to the appropriate CLEC. Usage data is mechanically transmitted or mailed to the CLEC data processing center once daily. Method of delivery is at the option of the CLEC.

### Calculation

**Mean Time to Deliver Usage** = (a X b) ÷ c

- a = Volume of Records Delivered
- b = Estimated number of days to deliver
- c = Total Record Volume Delivered

**Note:** Any usage record falling in the 30+ day interval will be added using an average figure of 31.5 days.

### Report Structure

- CLEC Aggregate
- CLEC Specific
- BellSouth Aggregate
- Region

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type                             <ul style="list-style-type: none"> <li>- BellSouth Recorded</li> <li>- Non-BellSouth Recorded</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Record Type</li> </ul>

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Region</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark ≤ 5 Days</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

B6: Mean Time to Deliver Usage

## B7: Recurring Charge Completeness

### Definition

This measure captures percentage of fractional recurring charges appearing on the correct bill.

### Exclusions

None

### Business Rules

The effective date of the recurring charge must be within 30 days of the bill date for the charge to appear on the correct bill.

### Calculation

$$\text{Recurring Charge Completeness} = (a \div b) \times 100$$

- a = Count of fractional recurring charges that are on the correct bill<sup>1</sup>
- b = Total count of fractional recurring charges that are on the correct bill

<sup>1</sup>Correct bill = next available bill

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Invoice Type</li> <li>• Total Recurring Charges Billed</li> <li>• Total Billed on Time</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Retail Analog</li> <li>• Total Recurring Charges Billed</li> <li>• Total Billed on Time</li> </ul>

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
Product/Invoice Type	
<ul style="list-style-type: none"> <li>• Resale</li> </ul>	<ul style="list-style-type: none"> <li>• Parity</li> </ul>
<ul style="list-style-type: none"> <li>• UNE</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark 90%</li> </ul>
<ul style="list-style-type: none"> <li>• Interconnection</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark 90%</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

### SEEM Disaggregation - Analog/Benchmark

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

## B8: Non-Recurring Charge Completeness

### Definition

This measure captures percentage of non-recurring charges appearing on the correct bill.

### Exclusions

None

### Business Rules

The effective date of the non-recurring charge must be within 30 days of the bill date for the charge to appear on the correct bill.

### Calculation

**Non-Recurring Charge Completeness** =  $(a \div b) \times 100$

- a = Count of non-recurring charges that are on the correct bill<sup>1</sup>
- b = Total count of non-recurring charges that are on the correct bill

<sup>1</sup>Correct bill = next available bill

### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Invoice Type</li> <li>• Total Non-Recurring Charges Billed</li> <li>• Total Billed on Time</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Retail Analog</li> <li>• Total Non-Recurring Charges Billed</li> <li>• Total Billed on Time</li> </ul>

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark:
Product/Invoice Type	
<ul style="list-style-type: none"> <li>• Resale</li> </ul>	<ul style="list-style-type: none"> <li>• Parity</li> </ul>
<ul style="list-style-type: none"> <li>• UNE</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark 90%</li> </ul>
<ul style="list-style-type: none"> <li>• Interconnection</li> </ul>	<ul style="list-style-type: none"> <li>• Benchmark 90%</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

### SEEM Disaggregation - Analog/Benchmark

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

## Section 6: Operator Services And Directory Assistance

### OS-1: Speed to Answer Performance/Average Speed to Answer - Toll

#### Definition

Measurement of the average time in seconds calls wait before answered by a toll operator.

#### Exclusions

None

#### Business Rules

The clock starts when the customer enters the queue and the clock stops when a BellSouth representative answers the call or the customer abandons the call. The length of each call is determined by measuring, using a scanning technique, and accumulating the elapsed time from the entry of a customer call into the BellSouth call management system queue until the customer call is abandoned or transferred to BellSouth personnel assigned to handle calls for assistance. The system makes no distinction between CLEC customers and BellSouth customers.

#### Calculation

Speed to Answer Performance/Average Speed to Answer - Toll =  $a \div b$

- a = Total queue time
- b = Total calls answered

**Note:** Total queue time includes time that answered calls wait in queue as well as time abandoned calls wait in queue prior to abandonment.

#### Report Structure

- Reported for the aggregate of BellSouth and CLECs
  - State

#### Data Retained (on Aggregate Basis)

- For the items below, BellSouth's Performance Measurement Analysis Platform (PMAP) receives a final computation; therefore, no raw data file is available in PMAP
- Month
- Call Type (Toll)
- Average Speed of Answer

#### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

**SEEM Measure**

<b>SEEM Measure</b>		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

## OS-2: Speed to Answer Performance/Percent Answered with "X" Seconds – Toll

### Definition

Measurement of the percent of toll calls that are answered in less than thirty seconds

### Exclusions

None

### Business Rules

The clock starts when the customer enters the queue and the clock stops when a BellSouth representative answers the call or the customer abandons the call. The length of each call is determined by measuring, using a scanning technique, and accumulating the elapsed time from the entry of a customer call into the BellSouth call management system queue until the customer call is abandoned or transferred to BellSouth personnel assigned to handle calls for assistance. The system makes no distinction between CLEC customers and BellSouth customers.

### Calculation

The Percent Answered within "X" Seconds measurement for toll is derived by using the BellCore Statistical Answer Conversion Tables, to convert the Average Speed to Answer measure into a percent of calls answered within "X" seconds. The BellCore Conversion Tables are specific to the defined parameters of work time, number of operators, max queue size and call abandonment rates.

### Report Structure

- Reported for the aggregate of BellSouth and CLECs
  - State

### Data Retained (on Aggregate Basis)

- For the items below, BellSouth's Performance Measurement Analysis Platform (PMAP) receives a final computation; therefore, no raw data file is available in PMAP
- Month
- Call Type (Toll)
- Average Speed of Answer

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation:	Retail Analog/Benchmark:
• None	• Parity by Design

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

### SEEM Disaggregation - Analog/Benchmark

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable



**DA-1: Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA)**

DA-1: Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA)

**Definition**

Measurement of the average time in seconds calls wait before answered by a DA operator.

**Exclusions**

None

**Business Rules**

The clock starts when the customer enters the queue and the clock stops when a BellSouth representative answers the call or the customer abandons the call. The length of each call is determined by measuring, using a scanning technique, and accumulating the elapsed time from the entry of a customer call into the BellSouth call management system queue until the customer call is abandoned or transferred to BellSouth personnel assigned to handle calls for assistance. The system makes no distinction between CLEC customers and BellSouth customers.

**Calculation**

Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA) =  $a \div b$

- a = Total queue time
- b = Total calls answered

**Note:** Total queue time includes time that answered calls wait in queue as well as time abandoned calls wait in queue prior to abandonment.

**Report Structure**

- Reported for the aggregate of BellSouth and CLECs
- State

**Data Retained (on Aggregate Basis)**

- For the items below, BellSouth’s Performance Measurement Analysis Platform (PMAP) receives a final computation; therefore, no raw data file is available in PMAP
- Month
- Call Type (DA)
- Average Speed of Answer

**SQM Level of Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

**DA-2: Speed to Answer Performance/Percent Answered within “X” Seconds – Directory Assistance (DA)**

DA-2: Speed to Answer Performance/Percent Answered within “X” Seconds – Directory Assistance (DA)

**Definition**

Measurement of the percent of DA calls that are answered in less than twenty seconds.

**Exclusions**

None

**Business Rules**

The clock starts when the customer enters the queue and the clock stops when a BellSouth representative answers the call or the customer abandons the call. The length of each call is determined by measuring, using a scanning technique, and accumulating the elapsed time from the entry of a customer call into the BellSouth call management system queue until the customer call is abandoned or transferred to BellSouth personnel assigned to handle calls for assistance. The system makes no distinction between CLEC customers and BellSouth customers.

**Calculation**

The Percent Answered within “X” Seconds measurement for DA is derived by using the BellCore Statistical Answer Conversion Tables, to convert the Average Speed to Answer measure into a percent of calls answered within “X” seconds. The BellCore Conversion Tables are specific to the defined parameters of work time, number of operators, max queue size and call abandonment rates.

**Report Structure**

- Reported for the aggregate of BellSouth and CLECs
- State

**Data Retained (on Aggregate Basis)**

- For the items below, BellSouth’s Performance Measurement Analysis Platform (PMAP) receives a final computation; therefore, no raw data file is available in PMAP.
- Month
- Call Type (DA)
- Average Speed of Answer

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## Section 7: Database Update Information

### D-1: Average Database Update Interval

#### Definition

This report measures the interval from receipt of the database change request to the completion of the update to the database for Line Information Database (LIDB), Directory Assistance and Directory Listings. For E-911, see Section 8.

#### Exclusions

- Updates Canceled by the CLEC
- Initial update when supplemented by CLEC
- BellSouth updates associated with internal or administrative use of local services.

#### Business Rules

The interval for this measure begins with the date and time stamp when a service order is completed and the completion notice is released to all systems to be updated with the order information including Directory Assistance, Directory Listings, and Line Information Database (LIDB). The end time stamp is the date and time of completion of updates to the system.

##### For BellSouth Results:

The BellSouth computation is identical to that for the CLEC with the clarifications noted below.

##### Other Clarifications and Qualification:

- For LIDB, the elapsed time for a BellSouth update is measured from the point in time when the BellSouth file maintenance process makes the LIDB update information available until the date and time reported by BellSouth that database updates are completed.
- Results for the CLECs are captured and reported at the update level by Reporting Dimension (see below).
- The Completion Date is the date upon which BellSouth issues the Update Completion Notice to the CLEC.
- If the CLEC initiates a supplement to the originally submitted update and the supplement reflects changes in customer requirements (rather than responding to BellSouth initiated changes), then the update submission date and time will be the date and time of BellSouth receipt of a syntactically correct update supplement. Update activities responding to BellSouth initiated changes will not result in changes to the update submission date and time used for the purposes of computing the update completion interval.
- Elapsed time is measured in hours and hundredths of hours rounded to the nearest tenth of an hour.
- Because this should be a highly automated process, the accumulation of elapsed time continues through off-schedule, weekends and holidays; however, scheduled maintenance windows are excluded.

#### Calculation

$$\text{Update Interval} = (a - b)$$

- a = Completion Date & Time of Database Update
- b = Submission Date and Time of Database Change

$$\text{Average Update Interval} = (c \div d)$$

- c = Sum of all Update Intervals
- d = Total Number of Updates Completed During Reporting Period

**Report Structure**

- CLEC Specific (Under development)
- CLEC Aggregate
- BellSouth Aggregate

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Database File Submission Time</li> <li>• Database File Update Completion Time</li> <li>• CLEC Number of Submissions</li> <li>• Total Number of Updates</li> </ul>	<ul style="list-style-type: none"> <li>• Database File Submission Time</li> <li>• Database File Update Completion Time</li> <li>• BellSouth Number of Submissions</li> <li>• Total Number of Updates</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM LEVEL of Disaggregation:	Retail Analog/Benchmark:
Database Type <ul style="list-style-type: none"> <li>• LIDB</li> <li>• Directory Listings</li> <li>• Directory Assistance</li> </ul>	<ul style="list-style-type: none"> <li>• Parity by Design</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

## D-2: Percent Database Update Accuracy

### Definition

This report measures the accuracy of database updates by BellSouth for Line Information Database (LIDB), Directory Assistance, and Directory Listings using a statistically valid sample of LSRs/Orders in a manual review. This manual review is not conducted on BellSouth Retail Orders.

### Exclusions

- Updates canceled by the CLEC
- Initial update when supplemented by CLEC
- CLEC orders that had CLEC errors
- BellSouth updates associated with internal or administrative use of local services.

### Business Rules

For each update completed during the reporting period, the original update that the CLEC sent to BellSouth is compared to the database following completion of the update by BellSouth. An update is "completed without error" if the database completely and accurately reflects the activity specified on the original and supplemental update (orders) submitted by the CLEC. Each database (LIDB, Directory Assistance, and Directory Listings) should be separately tracked and reported.

A statistically valid sample of CLEC Orders are pulled each month. That sample will be used to test the accuracy of the database update process. This is a manual process.

### Calculation

$$\text{Percent Update Accuracy} = (a \div b) \times 100$$

- a = Number of Updates Completed Without Error
- b = Number Updates Completed

### Report Structure

- CLEC Aggregate
- CLEC Specific (not available in this report)
- BellSouth Aggregate (not available in this report)

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Performance
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• CLEC Order Number (so_nbr) and PON (PON)</li> <li>• Local Service Request (LSR)</li> <li>• Order Submission Date</li> <li>• Number of Orders Reviewed</li> </ul> <p><b>Note:</b> Code in parentheses is the corresponding header found in the raw data file.</p>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SQM Disaggregation - Analog/Benchmark

SQM LEVEL of Disaggregation	Retail Analog/Benchmark:
Database Type <ul style="list-style-type: none"> <li>• LIDB</li> <li>• Directory Assistance</li> <li>• Directory Listing</li> </ul>	<ul style="list-style-type: none"> <li>• 95% Accurate</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

### D-3: Percent NXXs and LRNs Loaded by the LERG Effective Date

D-3: Percent NXXs and LRNs Loaded by the LERG Effective Date

#### Definition

Measurement of the percent of NXX(s) and Location Routing Numbers LRN(s) loaded in end office and/or tandem switches by the Local Exchange Routing Guide (LERG) effective date when facilities are in place. BellSouth has a single provisioning process for both NXX(s) and LRN(s). In this measure, BellSouth will identify whether or not a particular NXX has been flagged as LNP capable (set triggers for dips) by the LERG effective date.

An LRN is assigned by the owner of the switch and is placed into the software translations for every switch to be used as an administrative pointer to route NXX(s) in LNP capable switches. The LRN is a result of Local Number Porting and is housed in a national database provided by the Number Portability Administration Center (NPAC). The switch owner is responsible for notifying NPAC and requesting the effective date that will be reflected in the LERG. The national database downloads routing tables into BellSouth Service Control Point (SCP) regional databases, which are queried by switches when routing ported numbers.

The basic NXX routing process includes the addition of all NXX(s) in the response translations. This addition to response translations is what supports LRN routing. Routing instructions for all NXX(s), including LRN(s), are received from the Advance Routing & Trunking System (ARTS) and all routing, including response, is established based on the information contained in the Translation Work Instructions (TWINs) document.

#### Exclusions

- Activation requests where the CLEC's interconnection arrangements and facilities are not in place by the LERG effective date.

#### Business Rules

Data for the initial NXX(s) and LRN(s) in a local calling area will be based on the LERG effective date or completion of the initial interconnection trunk group(s), whichever is longer. Data for additional NXX(s) in the local calling area will be based on the LERG effective date. The LERG effective date is loaded into the system at the request of the CLEC. It is contingent upon the CLEC to engineer, order, and install interconnection arrangements and facilities prior to that date.

The total Count of NXX(s) and LRN(s) that were scheduled to be loaded and those that were loaded by the LERG effective date in BellSouth switches will be captured in the Work Force Administration -Dispatch In database.

#### Calculation

**Percent NXXs/LRNs Loaded and Tested Prior to the LERG Effective Date = (a ÷ b) X 100**

- a = Count of NXXs and LRNs loaded by the LERG effective date
- b = Total NXXs and LRNs scheduled to be loaded by the LERG effective date

#### Report Structure

- CLEC Specific
- CLEC Aggregate
- BellSouth (Not Applicable)

#### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Company Name</li> <li>• Company Code</li> <li>• NPA/NXX</li> <li>• LERG Effective Date</li> <li>• Loaded Date</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• Geographic scope</li> <li>- Region</li> </ul>	<ul style="list-style-type: none"> <li>• 100% by LERG effective date</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

D-3: Percent NXXs and LRNs Loaded by the LERG Effective Date



## Section 8: E911

### E-1: Timeliness

#### Definition

Measures the percent of batch orders for E911 database updates (to CLEC resale and BellSouth retail records) processed successfully within a 24-hour period.

#### Exclusions

- Any resale order canceled by a CLEC
- Facilities-based CLEC orders

#### Business Rules

The 24-hour processing period is calculated based on the date and time processing starts on the batch orders and the date and time processing stops on the batch orders. Mechanical processing starts when SCC (the BellSouth E911 vendor) receives E911 files containing batch orders extracted from the BellSouth Service Order Control System (SOCS). Processing stops when SCC loads the individual records to the E911 database. The E911 database includes updates to the Automatic Location Identification (ALI) database. The system makes no distinction between CLEC resale records and BellSouth retail records.

#### Calculation

$$\text{E911 Timeliness} = (a \div b) \times 100$$

- a = Number of batch orders processed within 24 hours
- b = Total number of batch orders submitted

#### Report Structure

Reported for the aggregate of CLEC resale updates and BellSouth retail updates

- State
- Region

#### Data Retained

- Report month
- Aggregate data

#### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

#### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

E-1: Timeliness

## E-2: Accuracy

### Definition

Measures the percent of E911 telephone number (TN) record updates (to CLEC resale and BellSouth retail records) processed successfully for E911 (including the Automatic Location Identification (ALI) database).

### Exclusions

- Any resale order canceled by a CLEC
- Facilities-based CLEC orders

### Business Rules

Accuracy is based on the number of records processed without error at the conclusion of the processing cycle. Mechanical processing starts when SCC (the BellSouth E911 vendor) receives E911 files containing telephone number (TN) records extracted from BellSouth's Service Order Control System (SOCS). The system makes no distinction between CLEC resale records and BellSouth retail records.

### Calculation

$$\text{E911 Accuracy} = (a \div b) \times 100$$

- a = Number of record individual updates processed with no errors
- b = Total number of individual record updates

### Report Structure

Reported for the aggregate of CLEC resale updates and BellSouth retail updates

- State
- Region

### Data Retained

- Report month
- Aggregate data

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

### SEEM Disaggregation - Analog/Benchmark

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## E-3: Mean Interval

### Definition

Measures the mean interval processing of E911 batch orders (to update CLEC resale and BellSouth retail records) including processing against the Automatic Location Identification (ALI) database.

### Exclusions

- Any resale order canceled by a CLEC
- Facilities-based CLEC orders

### Business Rules

The processing period is calculated based on the date and time processing starts on the batch orders and the date and time processing stops on the batch orders. Data is posted in 4-hour increments up to and beyond 24 hours. The system makes no distinction between CLEC resale records and BellSouth retail records.

### Calculation

**E911 Interval** = (a - b)

- a = Date and time of batch order completion
- b = Date and time of batch order submission

**E911 Mean Interval** = (c ÷ d)

- c = Sum of all E911 Intervals
- d = Number of batch orders completed

### Report Structure

Reported for the aggregate of CLEC resale updates and BellSouth retail updates

- State
- Region

### Data Retained

- Report month
- Aggregate data

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
• None	• Parity by Design

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

### SEEM Disaggregation - Analog/Benchmark

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## Section 9: Trunk Group Performance

### TGP-1: Trunk Group Performance-Aggregate

#### Definition

The Trunk Group Performance report displays, over a reporting cycle, aggregate, average trunk group blocking data for each hour of each day of the reporting cycle, for both CLEC affecting and BellSouth affecting trunk groups.

#### Exclusions

- Trunk groups for which valid data is not available for an entire study period
- Duplicate trunk group information
- Trunk groups blocked due to CLEC network/equipment failure
- Trunk groups blocked due to CLEC delayed or refused orders
- Increases in volume due to CLEC lack of informing BellSouth within a reasonable timeframe
- Final groups actually overflowing, not blocking

#### Business Rules

The purpose of the Trunk Group Performance Report is to provide trunk blocking measurements on CLEC and BellSouth trunk groups for comparison only. It is not the intent of the report that it be used for network management and/or engineering.

##### Monthly Average Blocking:

- The reporting cycle includes both business and non-business days in a calendar month.
- Monthly average blocking values are calculated for each trunk group for each of the 24 time consistent hours across a reporting cycle.

##### Aggregate Monthly Blocking:

- Used to compare aggregate blocking across trunk groups which terminate traffic at CLEC points of presence versus BellSouth switches.
- Aggregate monthly blocking data is calculated for each hour of the day across all trunk groups assigned to a category.

##### Trunk Categorization:

This report displays, over a reporting cycle, aggregate, average blocking data for each hour of a day. Therefore, for each reporting cycle, 24 blocking data points are generated for two aggregate groups of selected trunk groups. These groups are CLEC affecting and BellSouth affecting trunk groups. In order to assign trunk groups to each aggregate group, all trunk groups are first assigned to a category. A trunk group's end points and the type of traffic that is transmitted on it define a category. Selected categories of trunk groups are assigned to the aggregate groups so that trunk reports can be generated. The categories to which trunk groups have been assigned for this report are as follows.

##### CLEC Affecting Categories:

	Point A	Point B
Category 1:	BellSouth End Office	BellSouth Access Tandem
Category 3:	BellSouth End Office	CLEC Switch
Category 4:	BellSouth Local Tandem	CLEC Switch
Category 5:	BellSouth Access Tandem	CLEC Switch
Category 10:	BellSouth End Office	BellSouth Local Tandem
Category 16:	BellSouth Tandem	BellSouth Tandem

**BellSouth Affecting Categories:**

	Point A	Point B
Category 9:	BellSouth End Office	BellSouth End Office

**Calculation**

**Monthly Average Blocking:**

- For each hour of the day, each day's raw data are summed across all valid measurements days in a report cycle for blocked and attempted calls.
- The sum of the blocked calls is divided by the total number of calls attempted in a reporting period.

**Aggregate Monthly Blocking:**

- For each hour of the day, the monthly sums of the blocked and attempted calls from each trunk group are separately aggregated over all trunk groups within each assigned category.
- The total blocked calls is divided by the total call attempts within a group to calculate an aggregate monthly blocking for each assigned group.
- The result is an aggregate monthly average blocking value for each of the 24 hours by group.
- The difference between the CLEC and BellSouth affecting trunk groups are also calculated for each hour.

**Report Structure**

- CLEC Aggregate
- BellSouth Aggregate
  - State

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Trunk Groups</li> <li>• Number of Trunk Groups by CLEC</li> <li>• Hourly blocking per trunk group</li> <li>• Hourly usage per trunk group</li> <li>• Hourly call attempts per trunk group</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Trunk Groups</li> <li>• Aggregate Hourly blocking per trunk group</li> <li>• Hourly usage per trunk group</li> <li>• Hourly call attempts per trunk group</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark:
<ul style="list-style-type: none"> <li>• CLEC aggregate</li> <li>• BellSouth aggregate</li> </ul>	<ul style="list-style-type: none"> <li>• Any 2 hour period in 24 hours where CLEC blockage exceeds BellSouth blockage by more than 0.5% using trunk groups 1, 3, 4, 5, 10, 16 for CLECs and 9 for BellSouth</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

TGP-1: Trunk Group Performance-Aggregate

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark:</b>
<ul style="list-style-type: none"><li>• CLEC aggregate</li><li>• BellSouth aggregate</li></ul>	<ul style="list-style-type: none"><li>• Any 2 hour period in 24 hours where CLEC blockage exceeds BellSouth blockage by more than 0.5% using trunk groups 1,3,4,5,10,16 for CLECs and 9 for BellSouth</li></ul>

## TGP-2: Trunk Group Performance-CLEC Specific

### Definition

The Trunk Group Performance report displays, over a reporting cycle, aggregate, average trunk group blocking data for each hour of each day of the reporting cycle, for both CLEC affecting and BellSouth affecting trunk groups.

### Exclusions

- Trunk groups for which valid data is not available for an entire study period
- Duplicate trunk group information
- Trunk groups blocked due to CLEC network/equipment failure
- Trunk groups blocked due to CLEC delayed or refused orders
- Increases in volume due to CLEC lack of informing BellSouth within a reasonable timeframe
- Final groups actually overflowing, not blocking

### Business Rules

The purpose of the Trunk Group Performance Report is to provide trunk blocking measurements on CLEC and BellSouth trunk groups for comparison only. It is not the intent of the report that it be used for network management and/or engineering.

#### Monthly Average Blocking:

- The reporting cycle includes both business and non-business days in a calendar month.
- Monthly average blocking values are calculated for each trunk group for each of the 24 time consistent hours across a reporting cycle.

#### Aggregate Monthly Blocking:

- Used to compare aggregate blocking across trunk groups which terminate traffic at CLEC points of presence versus BellSouth switches.
- Aggregate monthly blocking data is calculated for each hour of the day across all trunk groups assigned to a category.

#### Trunk Categorization:

- This report displays, over a reporting cycle, aggregate, average blocking data for each hour of a day. Therefore, for each reporting cycle, 24 blocking data points are generated for two aggregate groups of selected trunk groups. These groups are CLEC affecting and BellSouth affecting trunk groups. In order to assign trunk groups to each aggregate group, all trunk groups are first assigned to a category. A trunk group's end points and the type of traffic that is transmitted on it define a category. Selected categories of trunk groups are assigned to the aggregate groups so that trunk reports can be generated. The categories to which trunk groups have been assigned for this report are as follows.

#### CLEC Affecting Categories:

	Point A	Point B
Category 1:	BellSouth End Office	BellSouth Access Tandem
Category 3:	BellSouth End Office	CLEC Switch
Category 4:	BellSouth Local Tandem	CLEC Switch
Category 5:	BellSouth Access Tandem	CLEC Switch
Category 10:	BellSouth End Office	BellSouth Local Tandem
Category 16:	BellSouth Tandem	BellSouth Tandem

#### BellSouth Affecting Categories:

	Point A	Point B
Category 9:	BellSouth End Office	BellSouth End Office

### Calculation:

#### Monthly Average Blocking:



- For each hour of the day, each day's raw data are summed across all valid measurements days in a report cycle for blocked and attempted calls.
- The sum of the blocked calls is divided by the total number of calls attempted in a reporting period.

**Aggregate Monthly Blocking:**

- For each hour of the day, the monthly sums of the blocked and attempted calls from each trunk group are separately aggregated over all trunk groups within each assigned category.
- The total blocked calls is divided by the total call attempts within a group to calculate an aggregate monthly blocking for each assigned group.
- The result is an aggregate monthly average blocking value for each of the 24 hours by group.
- The difference between the CLEC and BellSouth affecting trunk groups are also calculated for each hour.

**Report Structure**

- CLEC Specific
  - State

**Data Retained**

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Trunk Groups</li> <li>• Number of Trunk Groups by CLEC</li> <li>• Hourly blocking per trunk group</li> <li>• Hourly usage per trunk group</li> <li>• Hourly call attempts per trunk group</li> </ul>	<ul style="list-style-type: none"> <li>• Report Month</li> <li>• Total Trunk Groups</li> <li>• Aggregate Hourly blocking per trunk group</li> <li>• Hourly usage per trunk group</li> <li>• Hourly call attempts per trunk group</li> </ul>

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark:
<ul style="list-style-type: none"> <li>• CLEC trunk group</li> </ul>	<ul style="list-style-type: none"> <li>• Any 2 hour period in 24 hours where CLEC blockage exceeds BellSouth blockage by more than 0.5% using trunk groups 1, 3, 4, 5, 10, 16 for CLECs and 9 for BellSouth</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark:
<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

## Section 10: Collocation

### C-1: Collocation Average Response Time

#### Definition

Measures the average time (counted in calendar days) from the receipt of a complete and accurate collocation application (including receipt of application fee if required) to the date BellSouth returns a response electronically or in writing. Within the presubscribed number of calendar days after having received a bona fide application for physical collocation, BellSouth must respond as to whether space is available or not.

#### Exclusions

Any application canceled by the CLEC

#### Business Rules

The clock starts on the date that BellSouth receives a complete and accurate collocation application accompanied by the appropriate application fee if required. The clock stops on the date that BellSouth returns a response. The clock will restart upon receipt of changes to the original application request.

#### Calculation

**Response Time** = (a - b)

- a = Request Response Date
- b = Request Submission Date

**Average Response Time** = (c ÷ d)

- c = Sum of all Response Times
- d = Count of Responses Returned within Reporting Period

#### Report Structure

- Individual CLEC (alias) aggregate
- Aggregate of all CLECs

#### Data Retained

- Report period
- Aggregate data

#### SQM Disaggregation - Analog/Benchmark

Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• State</li> <li>• Virtual</li> <li>• Physical Caged</li> <li>• Physical-Cageless</li> <li>• Augments for Line Sharing or Line Splitting</li> </ul>	<ul style="list-style-type: none"> <li>• Virtual - 20 Calendar Days</li> <li>• Physical Caged - 23 Business Days</li> <li>• Physical Cageless - 23 Business Days</li> <li>• Augments for Line Sharing or Line Splitting - 23 Business Days</li> </ul>

**SEEM Measure**

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Not Applicable	• Not Applicable

## C-2: Collocation Average Arrangement Time

### Definition

Measures the average time (counted in calendar days) from receipt of a complete and accurate Bona Fide firm order (including receipt of appropriate fee if required) to the date BellSouth completes the collocation arrangement and notifies the CLEC.

### Exclusions

- Any Bona Fide firm order canceled by the CLEC
- Any Bona Fide firm order with a CLEC-negotiated interval longer than the benchmark interval.

### Business Rules

The clock starts on the date that BellSouth receives a complete and accurate Bona Fide firm order accompanied by the appropriate fee. The clock stops on the date that BellSouth completes the collocation arrangement and notifies the CLEC.

### Calculation

**Arrangement Time** = (a - b)

- a = Date Collocation Arrangement is Complete
- b = Date Order for Collocation Arrangement Submitted

**Average Arrangement Time** = (c ÷ d)

- c = Sum of all Arrangement Times
- d = Total Number of Collocation Arrangements Completed during Reporting Period.

### Report Structure

- Individual CLEC (alias) aggregate
- Aggregate of all CLECs

### Data Retained

- Report period
- Aggregate data

### SQM Disaggregation - Retail Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• State</li> <li>• Virtual-Ordinary</li> <li>• Virtual-Extraordinary</li> <li>• Physical Caged-Ordinary</li> <li>• Physical Caged-Extraordinary</li> <li>• Physical Cageless-Ordinary</li> <li>• Physical Cageless-Extraordinary</li> <li>• Augments for Line Sharing or Line Splitting</li> </ul>	<ul style="list-style-type: none"> <li>• Virtual - 50 Calendar Days (Ordinary)</li> <li>• Virtual - 75 Calendar Days (Extraordinary)</li> <li>• Physical Caged - 76 Business Days (Ordinary)</li> <li>• Physical Caged - 91 Business Days (Extraordinary)</li> <li>• Physical Cageless - 76 Business Days (Ordinary)</li> <li>• Physical Cageless - 91 Business Days (Extraordinary)</li> <li>• Augments for Line Sharing or Line Splitting - 45 Business Days</li> </ul>

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark:</b>
• Not Applicable	• Not Applicable

C-2: Collocation Average Arrangement Time

**C-3: Collocation Percent of Due Dates Missed**

C-3: Collocation Percent of Due Dates Missed

**Definition**

Measures the percent of missed due dates for both virtual and physical collocation arrangements.

**Exclusions**

Any Bona Fide firm order canceled by the CLEC

**Business Rules**

Percent Due Dates Missed is the percent of total collocation arrangements which BellSouth is unable to complete by end of the BellSouth committed due date. The clock starts on the date that BellSouth receives a complete and accurate Bona Fide firm order accompanied by the appropriate fee if required. The arrangement is considered a missed due date if it is not completed on or before the committed due date.

**Calculation**

**% of Due Dates Missed = (a ÷ b) X 100**

- a = Number of Completed Orders that were not completed within BellSouth Committed Due Date during Reporting Period
- b = Number of Orders Completed in Reporting Period

**Report Structure**

- Individual CLEC (alias) aggregate
- Aggregate of all CLECs

**Data Retained**

- Report period
- Aggregate data

**SQM Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• State</li> <li>• Virtual-Ordinary</li> <li>• Virtual-Extraordinary</li> <li>• Physical Caged-Ordinary</li> <li>• Physical Caged-Extraordinary</li> <li>• Physical Cageless-Ordinary</li> <li>• Physical Cageless-Extraordinary</li> <li>• Augments for Line Sharing or Line Splitting</li> </ul>	<ul style="list-style-type: none"> <li>• ≥ 95% on time</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	X
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
<ul style="list-style-type: none"> <li>• All Collocation Arrangements</li> </ul>	<ul style="list-style-type: none"> <li>• ≥ 95% on time.</li> </ul>

## Section 11: Change Management

### CM-1: Timeliness of Change Management Notices

#### Definition

Measures whether CLECs receive required software release notices on time to prepare for BellSouth interface/system changes so CLEC interfaces are not impaired by change.

#### Exclusions

- Changes to release dates for reasons outside BellSouth control, such as the system software vendor changes. For example: a patch to fix a software problem.
- Type 6 Change Requests (Defects/Expedites), as defined by the Change Control Process (CCP)

#### Business Rules

This metric is designed to measure the percent of change management notices sent to the CLECs according to notification standards and time frames set forth in the Change Control Process. The CCP is used by BellSouth and the CLECs to manage requested changes to the BellSouth Local Interfaces.

The clock starts on the notification date. The clock stops on the software release date. When project events occur (scope changes, analysis information, etc.), the software release date may change. A revised notification would be required and the clock would restart. Based on release constraints for defects/expedites, notification may be less than the agreed upon interval in the CCP for new features.

#### Calculation

**Timeliness of Change Management Notices** =  $(a \div b) \times 100$

- a = Total number of Change Management Notifications Sent Within Required Timeframes
- b = Total Number of Change Management Notifications Required

#### Report Structure

- BellSouth Aggregate

#### Data Retained

- Report Period
- Notice Date
- Release Date

#### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark:
• Region	• 95% ≥ 30 days of Release

#### SEEM Measure

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Region	• 95% $\geq$ 30 days of Release

CM-1: Timeliness of Change Management Notices



## CM-2: Change Management Notice Average Delay Days

### Definition

Measures the average delay days for change management system release notices sent outside the timeframe set forth in the Change Control Process.

### Exclusions

- Changes to release dates for reasons outside BellSouth control, such as the system software vendor changes. For example: a patch to fix a software problem.
- Type 6 Change Requests (Defects/Expedites), as defined by the Change Control Process

### Business Rules

This metric is designed to measure the percent of change management notices sent to the CLECs according to notification standards and timeframes set forth in the Change Control Process. The CCP is used by BellSouth and the CLECs to manage requested changes to the BellSouth Local Interfaces.

The clock starts on the notification due date. The clock stops on the software release date. When project events occur (scope changes, analysis information, etc.), the software release date may change. A revised notification would be required and the clock would restart. Based on release constraints for defects/expedites, notification may be less than the agreed upon interval in the CCP for new features.

### Calculation

**Change Management Notice Delay Days = (a - b)**

- a = Date Notice Sent
- b = Date Notice Due

**Change Management Notice Average Delay Days = (c ÷ d)**

- c = Sum of all Change Management Notice Delay Days
- d = Total Number of Notices Sent Late

### Report Structure

- BellSouth Aggregate

### Data Retained

- Report Period
- Notice Date
- Release Date

### SQM Disaggregation - Analog/Benchmark

SQM Level of Disaggregation:	Retail Analog/Benchmark:
• Region	• ≤ 8 Days

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

CM-2: Change Management Notice Average Delay Days

### CM-3: Timeliness of Documents Associated with Change

CM-3: Timeliness of Documents Associated with Change

**Definition**

Measures whether CLECs received requirements or business rule documentation on time to prepare for BellSouth interface/system changes so CLEC interfaces are not impaired by change.

**Exclusions**

- Documentation for release dates that slip less than 30 days for reasons outside BellSouth control, such as changes due to Regulatory mandate or CLEC request.
- Type 6 Change Requests (Defects/Expedites), as defined by the Change Control Process.

**Business Rules**

This metric is designed to measure the percent of requirements or business rule documentation sent to the CLECs according to documentation standards and timeframes set forth in the Change Control Process. The CCP is used by BellSouth and the CLECs to manage requested changes to the BellSouth Local Interfaces.

The clock starts on the business rule documentation release date. The clock stops on the software release date. When project events occur (scope changes, analysis information, etc.), the software release date may change. Revisions to documentation could be required and the clock would restart.

**Calculation**

**Timeliness of Documents Associated with Change** = (a ÷ b) X 100

- a = Change Management Documentation Sent Within Required Timeframes after Notices
- b = Total Number of Change Management Documentation Required

**Report Structure**

- BellSouth Aggregate

**Data Retained**

- Report Period
- Notice Date
- Release Date

**SQM Level of Disaggregation - Analog/Benchmark**

SQM Level of Disaggregation	Retail Analog/Benchmark
• Region	<ul style="list-style-type: none"> <li>• 95% ≥ 30 days if new features coding is required</li> <li>• 95% ≥ 5 days for documentation defects, corrections or clarifications</li> </ul>

**SEEM Measure**

SEEM Measure		
Yes	Tier I	
	Tier II	X

**SEEM Disaggregation - Analog/Benchmark**

SEEM Disaggregation	SEEM Analog/Benchmark
• Region	• 95% ≥ 30 days of the change

## CM-4: Change Management Documentation Average Delay Days

### Definition

Measures the average delay days for requirements or business rule documentation sent outside the timeframes set forth in the Change Control Process.

### Exclusions

- Documentation for release dates that slip less than 30 days for reasons outside BellSouth control, such as changes due to Regulatory mandate or CLEC request.
- Type 6 Change Requests (Defects/Expedites), as defined by the Change Control Process.

### Business Rules

This metric is designed to measure the percent of requirements or business rule documentation sent to the CLECs according to documentation standards and timeframes set forth in the Change Control Process (CCP). The CCP is used by BellSouth and the CLECs to manage requested changes to the BellSouth Local Interfaces.

The clock starts on the business rule documentation release date. The clock stops on the software release date. When project events occur (scope changes, analysis information, etc.), the software release date may change. Revisions to documentation could be required and the clock would restart.

### Calculation

**Change Management Documentation Delay Days = (a - b)**

- a = Date Documentation Provided
- b = Date Documentation Due

**Change Management Documentation Average Delay Days = (c ÷ d)**

- c = Sum of all Change Management Documentation Delay Days
- d = Total Change Management Documents Sent Late

### Report Structure

- BellSouth Aggregate

### Data Retained

- Report Period
- Notice Date
- Release Date

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark:
• Region	• ≤ 8 Days

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

## CM-5: Notification of CLEC Interface Outages

### Definition

Measures the time it takes BellSouth to notify the CLEC of an outage of an interface.

### Exclusions

None

### Business Rules

This measure is designed to notify the CLEC of interface outages within 15 minutes of BellSouth's verification that an outage has taken place. This metric will be expressed as a percentage.

### Calculation

**Notification of CLEC Interface Outages** =  $(a \div b) \times 100$

- a = Number of Interface Outages where CLECS are notified within 15 minutes
- b = Total Number of Interface Outages

### Report Structure

- CLEC Aggregate

### Data Retained

Relating to CLEC Experience	Relating to BellSouth Experience
<ul style="list-style-type: none"> <li>• Number of Interface Outages</li> <li>• Number of Notifications <math>\leq</math> 15 minutes</li> </ul>	<ul style="list-style-type: none"> <li>• Not Applicable</li> </ul>

### SQM Level of Disaggregation - Analog/Benchmark

SQM Level of Disaggregation	Retail Analog/Benchmark
<ul style="list-style-type: none"> <li>• By interface type for all interfaces accessed by CLECs</li> </ul>	<ul style="list-style-type: none"> <li>• 97% in 15 Minutes</li> </ul>

Interface	Applicable to
EDI	CLEC
CSOTS	CLEC
LENS	CLEC
TAG	CLEC
ECTA	CLEC
TAFI	CLEC/BellSouth

### SEEM Measure

SEEM Measure		
No	Tier I	
	Tier II	

**SEEM Disaggregation - Analog/Benchmark**

<b>SEEM Disaggregation</b>	<b>SEEM Analog/Benchmark</b>
• Not Applicable	• Not Applicable

## Appendix A: Reporting Scope

### A-1: Standard Service Groupings

See individual reports in the body of the SQM.

### A-2: Standard Service Order Activities

These are the generic BellSouth/CLEC service order activities which are included in the Pre-Ordering, Ordering, and Provisioning sections of this document. It is not meant to indicate specific reporting categories.

#### Service Order Activity Types

- Service Migrations Without Changes
- Service Migrations With Changes
- Move and Change Activities
- Service Disconnects (Unless noted otherwise)
- New Service Installations

#### Pre-Ordering Query Types

- Address
- Telephone Number
- Appointment Scheduling
- Customer Service Record
- Feature Availability
- Service Inquiry

#### Maintenance Query Types:

TAFI - TAFI queries the systems below

- CRIS
- March
- Predictor
- LMOS
  - DLR
  - DLETH
  - LMOSupd
- LNP
- NIW
- OSPCM
- SOCS

#### Report Levels

- CLEC RESH
- CLEC State
- CLEC Region
- Aggregate CLEC State



- Aggregate CLEC Region
- BellSouth State
- BellSouth Region

## Appendix B: Glossary of Acronyms and Terms

### Symbols used in calculations

- $\Sigma$  A mathematical symbol representing the sum of a series of values following the symbol.
- A mathematical operator representing subtraction.
- + A mathematical operator representing addition.
- $\div$  A mathematical operator representing division.
- < A mathematical symbol that indicates the metric on the left of the symbol is less than the metric on the right.
- $\leq$  A mathematical symbol that indicates the metric on the left of the symbol is less than or equal to the metric on the right.
- > A mathematical symbol that indicates the metric on the left of the symbol is greater than the metric on the right.
- $\geq$  A mathematical symbol that indicates the metric on the left of the symbol is greater than or equal to the metric on the right.
- () Parentheses, used to group mathematical operations which are completed before operations outside the parentheses.

### A

**ACD:** Automatic Call Distributor - A service that provides status monitoring of agents in a call center and routes high volume incoming telephone calls to available agents while collecting management information on both callers and attendants.

**Aggregate:** Sum total of all items in like category, e.g. CLEC aggregate equals the sum total of all CLECs' data for a given reporting level.

**ALEC:** Alternative Local Exchange Company = FL CLEC

**ADSL:** Asymmetrical Digital Subscriber Line

**ASR:** Access Service Request - A request for access service terminating delivery of carrier traffic into a Local Exchange Carrier's network.

**ATLAS:** Application for Telephone Number Load Administration System - The BellSouth Operations System used to administer the pool of available telephone numbers and to reserve selected numbers from the pool for use on pending service requests/service orders.

**ATLASTN:** ATLAS software contract for Telephone Number.

**Auto Clarification:** The number of LSRs that were electronically rejected from LESOG and electronically returned to the CLEC for correction.

### B

**BFR:** Bona Fide Request

**BILLING:** The process and functions by which billing data is collected and by which account information is processed in order to render accurate and timely billing.

**BOCRIS:** Business Office Customer Record Information System (Front-end to the CRIS database.)

**BRI:** Basic Rate ISDN

**BRC:** Business Repair Center – The BellSouth Business Systems trouble receipt center which serves business and CLEC customers.

**BellSouth :** BellSouth Telecommunications, Inc.

## C

**CABS:** Carrier Access Billing System

**CCC:** Coordinated Customer Conversions

**CCP:** Change Control Process

**Centrex:** A business telephone service, offered by local exchange carriers, which is similar to a Private Branch Exchange (PBX) but the switching equipment is located in the telephone company Central Office (CO).

**CKTID:** A unique identifier for elements combined in a service configuration

**CLEC:** Competitive Local Exchange Carrier

**CLP:** Competitive Local Provider = NC CLEC

**CM:** Change Management

**CMDS:** Centralized Message Distribution System - Telcordia administered national system used to transfer specially formatted messages among companies.

**COFFI:** Central Office Feature File Interface - Provides information about USOCs and class of service. COFFI is a part of DOE/SONGS. It indicates all services available to a customer.

**COG:** Corporate Gateway - Telcordia product designed for the electronic submission of xDSL Local Service Requests.

**CRIS:** Customer Record Information System - The BellSouth proprietary corporate database and billing system for non-access customers and services.

**CRSACCTS:** CRIS software contract for CSR information

**CRSG:** Complex Resale Support Group

**C-SOTS:** CLEC Service Order Tracking System

**CSR:** Customer Service Record

**CTTG:** Common Transport Trunk Group - Final trunk groups between BellSouth & Independent end offices and the BellSouth access tandems.

**CWINS Center:** Customer Wholesale Interconnection Network Services Center (formerly the UNE Center).

## D

**DA:** Directory Assistance

**DESIGN:** Design Service is defined as any Special or Plain Old Telephone Service Order which requires BellSouth Design Engineering Activities.

**DISPOSITION & CAUSE:** Types of trouble conditions, e.g. No Trouble Found, Central Office Equipment, Customer Premises Equipment, etc.

**DLETH:** Display Lengthy Trouble History - A history report that gives all activity on a line record for trouble reports in LMOS.

**DLR:** Detail Line Record - All the basic information maintained on a line record in LMOS, e.g. name, address, facilities, features etc.

**DS-0:** The worldwide standard speed for one digital voice signal (64000 bps).

**DS-1:** 24 DS-0s (1.544Mb/sec., i.e. carrier systems)

**DOE:** Direct Order Entry System - An internal BellSouth service order entry system used by BellSouth Service Representatives to input business service orders in BellSouth format.

**DOM:** Delivery Order Manager - Telcordia product designed for the electronic submission of xDSL Local Service Requests.

**DSAP:** DOE (Direct Order Entry) Support Application - The BellSouth Operations System which assists a Service Representative or similar carrier agent in negotiating service provisioning commitments for non-designed services and Unbundled Network Elements.

**DSAPDDI:** DSAP software contract for schedule information.

**DSL:** Digital Subscriber Line

**DUI:** Database Update Information

## E

**E911:** Provides callers access to the applicable emergency services bureau by dialing a 3-digit universal telephone number.

**EDI:** Electronic Data Interchange - The computer-to-computer exchange of inter and/or intra-company business documents in a public standard format.

**ESSX:** BellSouth Centrex Service

## F

**Fatal Reject:** LSRs electronically rejected from LEO, which checks to see if the LSR has all the required fields correctly populated.

**Flow-Through:** In the context of this document, LSRs submitted electronically via the CLEC mechanized ordering process that flow through to the BellSouth OSS without manual or human intervention.

**FOC:** Firm Order Confirmation - A notification returned to the CLEC confirming that the LSR has been received and accepted, including the specified commitment date.

**FX:** Foreign Exchange

**G****H**

**HAL:** “Hands Off” Assignment Logic - Front end access and error resolution logic used in interfacing BellSouth Operations Systems such as ATLAS, BOCRIS, LMOS, PSIMS, RSAG and SOCS.

**HALCRIS:** HAL software contract for CSR information

**HDSL:** High Density Subscriber Loop/Line

**I**

**ILEC:** Incumbent Local Exchange Company

**INP:** Interim Number Portability

**ISDN:** Integrated Services Digital Network

**IPC:** Interconnection Purchasing Center

**L**

**LAN:** Local Area Network

**LAUTO:** The automatic processor in the LNP Gateway that validates LSRs and issues service orders.

**LCSC:** Local Carrier Service Center - The BellSouth center which is dedicated to handling CLEC LSRs, ASRs, and Pre-ordering transactions along with associated expedite requests and escalations.

**Legacy System:** Term used to refer to BellSouth Operations Support Systems (see OSS)

**LENS:** Local Exchange Negotiation System - The BellSouth LAN/web server/OS application developed to provide both preordering and ordering electronic interface functions for CLECs.

**LEO:** Local Exchange Ordering - A BellSouth system which accepts the output of EDI, applies edit and formatting checks, and reformats the Local Service Requests in BellSouth Service Order format.

**LERG:** Local Exchange Routing Guide

**LESOG:** Local Exchange Service Order Generator - A BellSouth system which accepts the service order output of LEO and enters the Service Order into the Service Order Control System using terminal emulation technology.

**LFACS:** Loop Facilities Assessment and Control System

**LIDB:** Line Information Database

**LISC:** Local Interconnection Service Center - The center that issues trunk orders.

**LMOS:** Loop Maintenance Operations System - A BellSouth Operations System that stores the assignment and selected account information for use by downstream OSS and BellSouth personnel during provisioning and maintenance activities.

**LMOS HOST:** LMOS host computer

**LMOSupd:** LMOS updates

**LMU:** Loop Make-up

**LMUS:** Loop Make-up Service Inquiry

**LNP:** Local Number Portability - In the context of this document, the capability for a subscriber to retain his current telephone number as he transfers to a different local service provider.

**LOOPS :** Transmission paths from the central office to the customer premises.

**LRN:** Location Routing Number

**LSR:** Local Service Request – A request for local resale service or unbundled network elements from a CLEC.

## **M**

**Maintenance & Repair:** The process and function by which trouble reports are passed to BellSouth and by which the related service problems are resolved.

**MARCH:** BellSouth Operations System which accepts service orders, interprets the coding contained in the service order image, and constructs the specific switching system Recent Change command messages for input into end office switches.

## **N**

**NBR:** New Business Request

**NC:** “No Circuits” - All circuits busy announcement.

**NIW:** Network Information Warehouse

**NMLI:** Native Mode LAN Interconnection

**NPA:** Numbering Plan Area

**NXX:** The “exchange” portion of a telephone number.

## **O**

**OASIS:** Obtain Availability Services Information System - A BellSouth front-end processor, which acts as an interface between COFFI and RNS. This system takes the USOCs in COFFI and translates them to English for display in RNS.

**OASISBSN:** OASIS software contract for feature/service

**OASISCAR:** OASIS software contract for feature/service

**OASISLPC:** OASIS software contract for feature/service

**OASISMTN:** OASIS software contract for feature/service

**OASISNET:** OASIS software contract for feature/service

**OASISOCP:** OASIS software contract for feature/service

**ORDERING:** The process and functions by which resale services or unbundled network elements are ordered from BellSouth as well as the process by which an LSR or ASR is placed with BellSouth.

**OSPCM:** Outside Plant Contract Management System - Provides Scheduling Information.

**OSS:** Operations Support System - A support system or database which is used to mechanize the flow or performance of work. The term is used to refer to the overall system consisting of hardware complex, computer operating system(s), and application which is used to provide the support functions.

**OUT OF SERVICE:** Customer has no dial tone and cannot call out.

## P

**PMAP:** Performance Measurement Analysis Platform

**PMQAP:** Performance Measurement Quality Assurance Plan

**PON:** Purchase Order Number

**POTS:** Plain Old Telephone Service

**PREDICTOR:** The BellSouth Operations system which is used to administer proactive maintenance and rehabilitation activities on outside plant facilities, provide access to selected work groups (e.g. RRC & BRC) to Mechanized Loop Testing and switching system I/O ports, and provide certain information regarding the attributes and capabilities of outside plant facilities.

**Preordering:** The process and functions by which vital information is obtained, verified, or validated prior to placing a service request.

**PRI:** Primary Rate ISDN

**Provisioning:** The process and functions by which necessary work is performed to activate a service requested via an LSR or ASR and to initiate the proper billing and accounting functions.

**PSIMS:** Product/Service Inventory Management System - A BellSouth database Operations System which contains availability information on switching system features and capabilities and on BellSouth service availability. This database is used to verify the availability of a feature or service in an NXX prior to making a commitment to the customer.

**PSIMSORB:** PSIMS software contract for feature/service.

## Q

## R

**RNS:** Regional Negotiation System - An internal BellSouth service order entry system used by BellSouth Consumer Services to input service orders in BellSouth format.

**ROS:** Regional Ordering System

**RRC:** Residence Repair Center - The BellSouth Consumer Services trouble receipt center which serves residential customers.

**RSAG:** Regional Street Address Guide - The BellSouth database, which contains street addresses validated to be accurate with state and local governments.

**RSAGADDR:** RSAG software contract for address search.

**RSAGTN:** RSAG software contract for telephone number search.

## S

**SAC:** Service Advocacy Center

**SEEM:** Self Effectuating Enforcement Mechanism

**SOCS:** Service Order Control System - The BellSouth Operations System which routes service order images among BellSouth drop points and BellSouth Operations Systems during the service provisioning process.

**SOG:** Service Order Generator - Telcordia product designed to generate a service order for xDSL.

**SOIR:** Service Order Interface Record - any change effecting activity to a customer account by service order that impacts 911/E911

**SONGS:** Service Order Negotiation and Generation System.

## T

**TAFI:** Trouble Analysis Facilitation Interface - The BellSouth Operations System that supports trouble receipt center personnel in taking and handling customer trouble reports.

**TAG:** Telecommunications Access Gateway – TAG was designed to provide an electronic interface, or machine-to-machine interface for the bi-directional flow of information between BellSouth's OSSs and participating CLECs.

**TN:** Telephone Number

**Total Manual Fallout:** The number of LSRs which are entered electronically but require manual entering into a service order generator.

## U

**UNE:** Unbundled Network Element

**UCL:** Unbundled Copper Link

**USOC:** Universal Service Order Code

## V

## W

**WATS:** Wide Area Telephone Service

**WFA:** Work Force Administration

**WMC:** Work Management Center

**WTN:** Working Telephone Number.



X

Y

Z

## Appendix C: BellSouth Audit Policy

### C-1: BellSouth's Internal Audit Policy

BellSouth's internal efforts to make certain that the reports produced by the PMAP platform are of the highest accuracy has been formalized into a Performance Measurements Quality Assurance Plan (PMQAP) that documents and augments existing quality assurance processes integral to the production and validation of Performance Measurements data.

The plan consists of three sections:

1. Change Control addresses the quality assurance steps involved in the introduction of new measurements and changes to existing measurements.
2. Production addresses the quality assurance steps used to create monthly SQM reports.
3. Monthly Validation addresses the quality assurance steps used to ensure accurate posting of monthly results.

The BellSouth PMQAP will ensure that BellSouth effectively and consistently provides accurate performance measurements data for the activities included in the SQM. The BellSouth Internal Audit department will audit this plan and its quality assurance steps annually, beginning in 4Q01.

### C-2: BellSouth's External Audit Policy

BellSouth currently provides many CLECs with audit rights as a part of their individual interconnection agreements. BellSouth has developed a proposed Audit Plan for use by the parties to an audit. If requested by a Public Service Commission or by a CLEC exercising contractual audit rights, BellSouth will agree to undergo a comprehensive audit of the current year aggregate level reports for both BellSouth and the CLECs for each of the next five (5) years (2001 - 2005), to be conducted by an independent third party auditor. The results of audits will be made available to all the parties subject to proper safeguards to protect proprietary information. Requested audits include the following specifications:

1. The cost shall be borne 50% by BellSouth and 50% by the CLECs.
2. The independent third party auditor shall be selected with input from BellSouth, the PSC, if applicable, and the CLEC(s).
3. BellSouth, the PSC and the CLECs shall jointly determine the scope of the audit.

These comprehensive audits are intended to provide the basis for the PSCs and CLECs to determine that the SQM and PMAP produce accurate data that reflects each States Order for performance measurements. Once this has been verified by an initial audit, the BellSouth PMQAP will provide the basis for future audits.



# **EXHIBIT AJV-3**

**BellSouth's Self-Effectuating Enforcement Mechanism  
(SEEM)**

**BELLSOUTH'S**

**SELF-EFFECTUATING**  
**ENFORCEMENT**  
**MECHANISM**

**SEEM**

**Service Performance Measurements  
And Enforcement Mechanisms**

**1. Scope**

- 1.1 This Attachment includes Service Quality Measurements (“SQM”) with corresponding Self Effectuating Enforcement Measurements (“SEEM”) Enforcement Mechanisms applicable to this Agreement.
- 1.2 All exhibits referred to in this attachment are located on the BellSouth Performance Measurement Reports website at:

<https://pmap.bellsouth.com>

**2. Reporting**

- 2.1 In providing services pursuant to this Agreement, BellSouth will report its performance to CLEC-1 in accordance with BellSouth’s SQMs and applicable SEEMs, which are posted on the Performance Measurement Reports website.
- 2.2 BellSouth will make performance reports available to CLEC-1 on a monthly basis. The reports will contain information collected in each performance category and will be available to CLEC-1 via the Performance Measurements Reports website. BellSouth will also provide electronic access to the raw data underlying the SQMs.
- 2.3 Preliminary SQM reports will be posted on the Performance Measurements Reports website by 8:00 A.M. EST on the 21<sup>st</sup> day of each month or the first business day after the 21<sup>st</sup> for the previous month’s performance. Final validated SQM reports will be posted by 8:00 A.M. EST on the last day of the month. SQM reports not posted by this time will be considered late for SEEM purposes.
- 2.4 Preliminary SEEM reports will be posted on the Performance Measurements Reports website by 8:00 A.M. EST on the last day of each month or the first business day after the last day of the month for the previous month’s performance. Final validated SEEM reports will be posted on the 15<sup>th</sup> of the month, following the final validated SQM report.

**3. Modifications to Measurements**

**3.1 Service Quality Measurements**

- 3.1.1 BellSouth will review the SQMs semi-annually. All modifications to the SQMs will be approved by the Commission. CLEC-1 may provide input to BellSouth regarding any suggested additions, deletions or other

modifications to the SQMs. BellSouth will provide notice of all changes to the SQMs via the Performance Measurement Reports website.

- 3.1.2 Notwithstanding the foregoing, BellSouth may, from time to time, be ordered by a regulatory or judicial body to modify or amend the SQMs. BellSouth will make all such changes to the SQMs pursuant to the Modification of Agreement Section of the General Terms and Conditions of the CLEC-1's Interconnection Agreement, incorporated herein by reference. Nothing herein shall preclude either party from participating in any proceeding involving BellSouth's SQMs or from advocating that those measurements be modified from those contained herein.
- 3.1.3 Notwithstanding any other provision of this document, in the event a dispute arises regarding the modification or amendment of the SQMs, the parties will refer the dispute to the Commission.

### 3.2 Self Effectuating Enforcement Mechanisms and Statistical Test

- 3.2.1 In order for BellSouth to accurately administer Enforcement Mechanisms, the SEEMs shall be modified or amended only if BellSouth determines such modification or amendment is necessary. However, BellSouth will not delete any effective SEEM without prior written consent of the Commission. BellSouth will notify CLEC-1 of any such modification or amendment to the SEEMS via the Performance Measurement Reports website.
- 3.2.2 Notwithstanding the foregoing, BellSouth may, from time to time, be ordered by a regulatory or judicial body to modify or amend then SEEMs and/or Statistical Test. BellSouth will make all such changes to the SEEMs and/or Statistical Test pursuant to Modification of Agreement Section of the General Terms and Conditions of CLEC-1's Interconnection Agreement, incorporated herein by reference. Nothing herein shall preclude either party from participating in any proceeding involving the SEEMs and/or Statistical Test or from advocating that those measurements or test be modified from those contained herein.
- 3.2.3 Notwithstanding any other provision of this document, in the event a dispute arises regarding the modification or amendment of the SEEMs and/or Statistical Test, the parties will refer the dispute to the Commission.

## 4. Enforcement Mechanisms

### 4.1 Definitions

- 4.1.1 Enforcement Measurement Elements means the performance measurements identified as SEEM measurements in the SQM.
- 4.1.2 Enforcement Measurement Benchmark means a competitive level of performance negotiated by BellSouth used to evaluate the performance of BellSouth and CLEC-1 where no analogous retail process, product or service is feasible.
- 4.1.3 Enforcement Measurement Compliance means comparing performance levels provided to BellSouth retail customers with performance levels provided by BellSouth to the CLEC customer.
- 4.1.4 Test Statistic and Balancing Critical Value is the means by which enforcement will be determined using statistically valid equations. The Test Statistic and Balancing Critical Value are set forth in Exhibit D located on the Performance Measurements Reports website (labeled Appendix D attached), incorporated herein by this reference.
- 4.1.5 Cell is a grouping of transactions at which like-to-like comparisons are made. For example, all BellSouth retail POTS services, for residential customers, requiring a dispatch in a particular wire center, at a particular point in time will be compared directly to CLEC-1 resold services for residential customers, requiring a dispatch, in the same wire center, at a particular point in time. When determining compliance, these cells can have a positive or negative Test Statistic. See Exhibit C located on the Performance Measurements Reports website (labeled Appendix C attached), incorporated herein by this reference.
- 4.1.6 Affected Volume means that proportion of the total impacted CLEC-1 volume or CLEC Aggregate volume for which remedies will be paid.
- 4.1.7 Parity Gap refers to the incremental departure from a compliant-level of service. This is also referred to as “diff” in the Statistical paper located at Exhibit C located on the Performance Measurements Reports website (labeled Appendix C attached), incorporated herein by this reference.
- 4.1.8 Tier-1 Enforcement Mechanisms means self-executing liquidated damages paid directly to CLEC-1 when BellSouth delivers non-compliant performance of any one of the Tier-1 Enforcement Measurement Elements for any month as calculated by BellSouth.



4.1.9 Tier-2 Enforcement Mechanisms means Assessments paid directly to the Commission or its designee. Tier 2 Enforcement Mechanisms are triggered by three consecutive monthly failures in which BellSouth performance is out of compliance or does not meet the benchmarks for the aggregate of all CLEC data as calculated by BellSouth for a particular Tier-2 Enforcement Measurement Element.

#### 4.2 Application

- 4.2.1 The Enforcement Mechanisms set forth in this section shall only become effective upon an effective FCC order, which has not been stayed, authorizing BellSouth to provide interLATA telecommunications services under section 271 of the Act within a particular state and shall only apply to BellSouth's performance in any state in which the FCC has granted such interLATA authority.
- 4.2.2 The application of the Tier-1 and Tier-2 Enforcement Mechanisms does not foreclose other legal and regulatory claims and remedies available to CLEC-1.
- 4.2.3 Payment of any Tier-1 or Tier-2 Enforcement Mechanisms shall not be considered as an admission against interest or an admission of liability or culpability in any legal, regulatory or other proceeding relating to BellSouth's performance. The payment of any Tier-1 Enforcement Mechanisms to CLEC-1 shall be credited against any liability associated with or related to BellSouth's service performance.
- 4.2.4 It is not the intent of the Parties that BellSouth be liable for both Tier-2 Enforcement Mechanisms and any other assessments or sanctions imposed by the Commission. CLEC-1 will not oppose any effort by BellSouth to set off Tier-2 Enforcement Mechanisms from any additional assessment imposed by the Commission.
- 4.2.5 CLEC-1 acknowledges and argues that the Enforcement Mechanisms contained in this attachment have been provided by BellSouth on a completely voluntary basis in order to maintain compliance between BellSouth and CLEC-1. Therefore, CLEC-1 may not use the existence of this section or any payments of any Tier-1 or Tier-2 Enforcement Mechanisms under this section as evidence that BellSouth has not complied with or has violated any state or federal law or regulation.

#### 4.3 Methodology

4.3.1 Tier-1 Enforcement Mechanisms will be triggered by BellSouth's failure to achieve applicable Enforcement Measurement Compliance or Enforcement Measurement Benchmarks for CLEC-1 for the State for a given Enforcement Measurement Element in a given month. Enforcement Measurement Compliance is based upon a Test Statistic and Balancing Critical Value calculated by BellSouth utilizing BellSouth generated data. The method of calculation is set forth in Exhibit D located on the Performance Measurements Reports website (labeled Appendix D attached), incorporated herein by this reference.

4.3.1.1 Tier-1 Enforcement Mechanisms apply on a per transaction basis for each negative cell and will escalate based upon the number of consecutive months that BellSouth has reported non-compliance.

4.3.1.2 Fee Schedule for Tier-1 Enforcement Mechanisms is shown on the Performance Measurement Reports website in Table-1 of Exhibit A (labeled Appendix A attached), incorporated herein by this reference. Failures beyond Month 6 will be subject to Month 6 fees.

4.3.2 Tier-2 Enforcement Mechanisms will be triggered by BellSouth's failure to achieve applicable Enforcement Measurement Compliance or Enforcement Measurement Benchmarks for the State for given Enforcement Measurement Elements for three consecutive months based upon a statistically valid equation calculated by BellSouth utilizing BellSouth generated data. The method of calculation is set forth in Exhibit D located on the Performance Measurements Reports website (labeled Appendix D attached), incorporated herein by this reference.

4.3.2.1 Tier- 2 Enforcement Mechanisms apply, for an aggregate of all CLEC data generated by BellSouth, on a per transaction basis for each negative cell for a particular Enforcement Measurement Element.

4.3.2.2 Fee Schedule for Total Quarterly Tier-2 Enforcement Mechanisms is shown on the Performance Measurement Reports website in Table-2 of Exhibit A (labeled Appendix A attached), incorporated herein by this reference.

#### 4.4 Payment of Tier-1 and Tier-2 Amounts

- 4.4.1 If BellSouth performance triggers an obligation to pay Tier-1 Enforcement Mechanisms to CLEC-1 or an obligation to remit Tier-2 Enforcement Mechanisms to the Commission or its designee, BellSouth shall make payment in the required amount on the day upon which the final validated SEEM reports are posted on the Performance Measurements Reports website as set forth in Section 2.4 above.
  - 4.4.2 For each day after the due date that BellSouth fails to pay CLEC-1 the required amount, BellSouth will pay CLEC-1 6% simple interest per annum.
  - 4.4.3 For each day after the due date that BellSouth fails to pay the Tier-2 Enforcement Mechanisms, BellSouth will pay the Commission an additional \$1,000 per day.
  - 4.4.4 If CLEC-1 disputes the amount paid to CLEC-1 for Tier-1 Enforcement Mechanisms, CLEC-1 shall submit a written claim to BellSouth within sixty (60) days after the date of the performance measurement report for which the obligation arose. BellSouth shall investigate all claims and provide CLEC-1 written findings within thirty (30) days after receipt of the claim. If BellSouth determines CLEC-1 is owed additional amounts, BellSouth shall pay CLEC-1 such additional amounts within thirty (30) days after its findings along with 6% simple interest per annum.
  - 4.4.5 At the end of each calendar year, BellSouth will have its independent auditing and accounting firm certify that the results of all Tier-1 and Tier-2 Enforcement Mechanisms were paid and accounted for in accordance with Generally Accepted Account Principles (GAAP).
- 4.5 Limitations of Liability
- 4.5.1 BellSouth will not be responsible for CLEC-1 acts or omissions that cause performance measures to be missed or fail, including but not limited to accumulation and submission of orders at unreasonable quantities or times or failure to submit accurate orders or inquiries. BellSouth shall provide CLEC-1 with reasonable notice of such acts or omissions and provide CLEC-1 any such supporting documentation.
  - 4.5.2 BellSouth shall not be obligated for Tier-1 or Tier-2 Enforcement Mechanisms for non-compliance with a performance measure if such non-compliance was the result of an act or omission by CLEC-1 that is in bad faith.

- 4.5.3 BellSouth shall not be obligated to pay Tier-1 Enforcement Mechanisms or Tier-2 Enforcement Mechanism for non-compliance with a performance measurement if such non-compliance was the result of any of the following: a Force Majeure event as set forth in the General Terms and Conditions of this Agreement; an act or omission by CLEC-1 that is contrary to any of its obligations under its Interconnection Agreement with BellSouth; an act or omission by CLEC-1 that is contrary to any of its obligations under the Act, Commission rule, or state law; an act or omission associated with third-party systems or equipment.
- 4.6 Enforcement Mechanism Cap
  - 4.6.1 BellSouth's total liability for the payment of Tier-1 and Tier-2 Enforcement Mechanisms shall be collectively capped at 36% of net revenue per year.
  - 4.6.2 If projected payments exceed the state cap, a proportional payment will be made to the respective parties.
  - 4.6.3 If BellSouth's payment of Tier-1 and Tier-2 Enforcement Mechanisms would have exceeded the cap referenced in this attachment, CLEC-1 may commence a proceeding with the Commission to demonstrate why BellSouth should pay any amount in excess of the cap. CLEC-1 shall have the burden of proof to demonstrate why, under the circumstances, BellSouth should have additional liability.
- 4.8 Dispute Resolution
  - 4.8.1 Notwithstanding any other provision of this document, any dispute regarding BellSouth's performance or obligations pursuant to this Attachment shall be resolved by the Commission.

# APPENDIX A

## Fee Schedule

**TABLE-1: LIQUIDATED DAMAGES TABLE FOR TIER-1 MEASURES**

<b>PER AFFECTED ITEM</b>						
	Month 1	Month 2	Month3	Month4	Month 5	Month 6
Pre-Ordering	\$20	\$30	\$40	\$50	\$60	\$70
Ordering	\$40	\$50	\$60	\$70	\$80	\$90
Provisioning	\$100	\$125	\$175	\$250	\$325	\$500
Provisioning UNE (Coordinated Customer Conversions)	\$400	\$450	\$500	\$550	\$650	\$800
Maintenance and Repair	\$100	\$125	\$175	\$250	\$325	\$500
Maintenance and Repair UNE	\$400	\$450	\$500	\$550	\$650	\$800
LNP	\$150	\$250	\$500	\$600	\$700	\$800
Billing	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00	\$1.00
IC Trunks	\$100	\$125	\$175	\$250	\$325	\$500
Collocation	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000

**TABLE-2: REMEDY PAYMENTS FOR TIER-2 MEASURES**

	<b>Per Affected Item</b>
OSS Pre-Ordering	\$20
Ordering	\$60
Provisioning	\$300
Provisioning-UNE (Coordinated Customer Conversions)	\$875
Maintenance and Repair	\$300
Maintenance and Repair-UNE	\$875
Billing	\$1.00
LNP	\$500
IC Trunks	\$500
Collocation	\$15,000
Change Management	\$1,000

# APPENDIX B

## SEEM Sub-Metrics

SEEM TIER-1 SUB-METRICS

1. Firm Order Confirmation and Reject Response Completeness – Fully Mechanized
2. Percent Missed Installation Appointments – Resale POTS
3. Percent Missed Installation Appointments – Resale Design
4. Percent Missed Installation Appointments – UNE Loop and Port Combinations
5. Percent Missed Installation Appointments – UNE Loops
6. Percent Missed Installation Appointments – UNE xDSL
7. Percent Missed Installation Appointments – UNE Line Sharing
8. Percent Missed Installation Appointments – Local IC Trunks
9. Average Completion Interval – Resale POTS
10. Average Completion Interval – Resale Design
11. Average Completion Interval – UNE Loop and Port Combinations
12. Average Completion Interval – UNE Loops
13. Average Completion Interval – UNE xDSL
14. Average Completion Interval – UNE Line Sharing
15. Average Completion Interval – Local IC Trunks
16. Coordinated Customer Conversions Interval – Unbindled Loops
17. Coordinated Customer Conversions – Hot Cut Timeliness % within interval - UNE Loops
18. Coordinated Customer Conversions – % Provisioning Troubles Received within 7 days of a completed service order – UNE Loops
19. % Provisioning Troubles within 30 days of Service Order Completion – Resale POTS
20. % Provisioning Troubles within 30 days of Service Order Completion – Resale Design
21. % Provisioning Troubles within 30 days of Service Order Completion – UNE Loop and Port Combinations
22. % Provisioning Troubles within 30 days of Service Order Completion – UNE Loops
23. % Provisioning Troubles within 30 days of Service Order Completion – UNE xDSL
24. % Provisioning Troubles within 30 days of Service Order Completion – UNE Line Sharing
25. % Provisioning Troubles within 30 days of Service Order Completion – Local IC Trunks
26. LNP – Percent Missed Installation Appointments – LNP
27. LNP – Average Disconnect Timeliness Interval – LNP
28. Missed Repair Appointments – Resale POTS



SEEM TIER-1 SUB-METRICS  
CONTINUED

29. Missed Repair Appointments – Resale Design
30. Missed Repair Appointments – UNE Loop and Port Combinations
31. Missed Repair Appointments – UNE Loops
32. Missed Repair Appointments – UNE xDSL
33. Missed Repair Appointments – UNE Line Sharing
34. Missed Repair Appointments – Local IC Trunks
35. Customer Trouble Report Rate – Resale POTS
36. Customer Trouble Report Rate – Resale Design
37. Customer Trouble Report Rate – UNE Loop and Port Combinations
38. Customer Trouble Report Rate – UNE Loops
39. Customer Trouble Report Rate – UNE xDSL
40. Customer Trouble Report Rate – UNE Line Sharing
41. Customer Trouble Report Rate – Local IC Trunks
42. Maintenance Average Duration – Resale POTS
43. Maintenance Average Duration – Resale Design
44. Maintenance Average Duration – UNE Loop and Port Combinations
45. Maintenance Average Duration – UNE Loops
46. Maintenance Average Duration – UNE xDSL
47. Maintenance Average Duration – UNE Line Sharing
48. Maintenance Average Duration – Local IC Trunks
49. % Repeat Troubles within 30 days – Resale POTS
50. % Repeat Troubles within 30 days – Resale Design
51. % Repeat Troubles within 30 days – UNE Loop and Port Combinations
52. % Repeat Troubles within 30 days – UNE Loops
53. % Repeat Troubles within 30 days – UNE xDSL
54. % Repeat Troubles within 30 days – UNE Line Sharing
55. % Repeat Troubles within 30 days – Local IC Trunks
56. Trunk Group Performance – CLEC Trunk Group
57. Collocation Percent of Due Dates Missed

SEEM TIER-2 SUB-METRICS

1. Average Response Time – Pre-Ordering/Ordering
2. Interface Availability – Pre-Ordering/Ordering
3. Interface Availability – Maintenance & Repair
4. Loop Makeup – Response Time – Manual
5. Loop Makeup – Response Time – Electronic
6. Acknowledgement Message Timeliness – EDI
7. Acknowledgement Message Timeliness – TAG
8. Acknowledgement Message Completeness EDI
9. Acknowledgement Message Completeness TAG
10. Percent Flow-through Service Requests (Summary)
11. Reject Interval
12. Firm Order Confirmation Timeliness
13. Firm Order Confirmation and Reject Response Completeness – Fully Mechanized
14. Percent Missed Installation Appointments – Resale POTS
15. Percent Missed Installation Appointments – Resale Design
16. Percent Missed Installation Appointments – UNE Loop and Port Combinations
17. Percent Missed Installation Appointments – UNE Loops
18. Percent Missed Installation Appointments – UNE xDSL
19. Percent Missed Installation Appointments – UNE Line Sharing
20. Percent Missed Installation Appointments – Local IC Trunks
21. Average Completion Interval – Resale POTS
22. Average Completion Interval – Resale Design
23. Average Completion Interval – UNE Loop and Port Combinations
24. Average Completion Interval – UNE Loops
25. Average Completion Interval – UNE xDSL
26. Average Completion Interval – UNE Line Sharing
27. Average Completion Interval – Local IC Trunks
28. Coordinated Customer Conversions Interval – Unbundled Loops
29. Coordinated Customer Conversions – Hot Cut Timeliness % within interval - UNE Loops
30. Coordinated Customer Conversions – % Provisioning Troubles Received within 7 days of a completed service order – UNE Loops
31. Cooperative Acceptance Testing - % xDSL Loops Tested
32. % Provisioning Troubles within 30 days of Service Order Completion – Resale POTS
33. % Provisioning Troubles within 30 days of Service Order Completion – Resale Design
34. % Provisioning Troubles within 30 days of Service Order Completion – UNE Loop and Port Combinations

SEEM TIER-2 SUB-METRICS  
CONTINUED

35. % Provisioning Troubles within 30 days of Service Order Completion – UNE Loops
36. % Provisioning Troubles within 30 days of Service Order Completion – UNE xDSL
37. % Provisioning Troubles within 30 days of Service Order Completion – UNE Line Sharing
38. % Provisioning Troubles within 30 days of Service Order Completion – Local IC Trunks
39. LNP – Percent Missed Installation Appointments – LNP
40. LNP – Average Disconnect Timeliness Interval – LNP
41. Missed Repair Appointments – Resale POTS
42. Missed Repair Appointments – Resale Design
43. Missed Repair Appointments – UNE Loop and Port Combinations
44. Missed Repair Appointments – UNE Loops
45. Missed Repair Appointments – UNE xDSL
46. Missed Repair Appointments – UNE Line Sharing
47. Missed Repair Appointments – Local IC Trunks
48. Customer Trouble Report Rate – Resale POTS
49. Customer Trouble Report Rate – Resale Design
50. Customer Trouble Report Rate – UNE Loop and Port Combinations
51. Customer Trouble Report Rate – UNE Loops
52. Customer Trouble Report Rate – UNE xDSL
53. Customer Trouble Report Rate – UNE Line Sharing
54. Customer Trouble Report Rate – Local IC Trunks
55. Maintenance Average Duration – Resale POTS
56. Maintenance Average Duration – Resale Design
57. Maintenance Average Duration – UNE Loop and Port Combinations
58. Maintenance Average Duration – UNE Loops
59. Maintenance Average Duration – UNE xDSL
60. Maintenance Average Duration – UNE Line Sharing
61. Maintenance Average Duration – Local IC Trunks
62. % Repeat Troubles within 30 days – Resale POTS
63. % Repeat Troubles within 30 days – Resale Design
64. % Repeat Troubles within 30 days – UNE Loop and Port Combinations
65. % Repeat Troubles within 30 days – UNE Loops
66. % Repeat Troubles within 30 days – UNE xDSL
67. % Repeat Troubles within 30 days – UNE Line Sharing
68. % Repeat Troubles within 30 days – Local IC Trunks
69. Invoice Accuracy
70. Mean Time to Deliver Invoices
71. Usage Data Delivery Accuracy
72. Trunk Group Performance – Aggregate

SEEM TIER-2 SUB-METRICS  
CONTINUED

73. Collocation Percent of Due Dates Missed
74. Timeliness of Change Management Notices
75. Timeliness of Documents Associated with Change

# APPENDIX C

## Statistical Methodology

## Statistical Methods for BellSouth Performance Measure Analysis

### I. Necessary Properties for a Test Methodology

The statistical process for testing if competing local exchange carriers (CLECs) customers are being treated equally with BellSouth (BST) customers involves more than just a mathematical formula. Three key elements need to be considered before an appropriate decision process can be developed. These are

- the type of data,
- the type of comparison, and
- the type of performance measure.

Once these elements are determined a test methodology should be developed that complies with the following properties.

- Like-to-Like Comparisons. When possible, data should be compared at appropriate levels, e.g. wire center, time of month, dispatched, residential, new orders. The testing process should:
  - Identify variables that may affect the performance measure.
  - Record these important confounding covariates.
  - Adjust for the observed covariates in order to remove potential biases and to make the CLEC and the ILEC units as comparable as possible.
- Aggregate Level Test Statistic. Each performance measure of interest should be summarized by one overall test statistic giving the decision maker a rule that determines whether a statistically significant difference exists. The test statistic should have the following properties.
  - The method should provide a single overall index, on a standard scale.
  - If entries in comparison cells are exactly proportional over a covariate, the aggregated index should be very nearly the same as if comparisons on the covariate had not been done.
  - The contribution of each comparison cell should depend on the number of observations in the cell.
  - Cancellation between comparison cells should be limited.
  - The index should be a continuous function of the observations.
- Production Mode Process. The decision system must be developed so that it does not require intermediate manual intervention, i.e. the process must be a “black box.”
  - Calculations are well defined for possible eventualities.

- The decision process is an algorithm that needs no manual intervention.
- Results should be arrived at in a timely manner.
- The system must recognize that resources are needed for other performance measure-related processes that also must be run in a timely manner.
- The system should be auditable, and adjustable over time.
- Balancing. The testing methodology should balance Type I and Type II Error probabilities.
  - $P(\text{Type I Error}) = P(\text{Type II Error})$  for well defined null and alternative hypotheses.
  - The formula for a test's balancing critical value should be simple enough to calculate using standard mathematical functions, i.e. one should avoid methods that require computationally intensive techniques.
  - Little to no information beyond the null hypothesis, the alternative hypothesis, and the number of observations should be required for calculating the balancing critical value.
- Trimming. Trimming of extreme observations from BellSouth and CLEC distributions is needed in order to ensure that a fair comparison is made between performance measures. Three conditions are needed to accomplish this goal. These are:
  - Trimming should be based on a general rule that can be used in a production setting.
  - Trimmed observations should not simply be discarded; they need to be examined and possibly used in the final decision making process.
  - Trimming should only be used on performance measures that are sensitive to "outliers."

### Measurement Types

The performance measures that will undergo testing are of four types:

- 1) means
- 2) proportions,
- 3) rates, and
- 4) ratio

While all four have similar characteristics, proportions and rates are derived from count data while means and ratios are derived from interval measurements.

## II. Testing Methodology – The Truncated Z

Many covariates are chosen in order to provide deep comparison levels. In each comparison cell, a Z statistic is calculated. The form of the Z statistic may vary depending on the performance measure, but it should be distributed approximately as a standard normal, with mean zero and variance equal to one. Assuming that the test statistic is derived so that it is negative when the performance for the CLEC is worse than for the ILEC, a positive truncation is done – i.e. if the result is negative it is left alone, if the result is positive it is changed to zero. A weighted average of the truncated statistics is calculated where a cell weight depends on the volume of BST and CLEC orders in the cell. The weighted average is re-centered by the theoretical mean of a truncated distribution, and this is divided by the standard error of the weighted average. The standard error is computed assuming a fixed effects model.

### *Proportion Measures*

For performance measures that are calculated as a proportion, in each adjustment cell, the truncated Z and the moments for the truncated Z can be calculated in a direct manner. In adjustment cells where proportions are not close to zero or one, and where the sample sizes are reasonably large, a normal approximation can be used. In this case, the moments for the truncated Z come directly from properties of the standard normal distribution. If the normal approximation is not appropriate, then the Z statistic is calculated from the hypergeometric distribution. In this case, the moments of the truncated Z are calculated exactly using the hypergeometric probabilities.

### *Rate Measures*

The truncated Z methodology for rate measures has the same general structure for calculating the Z in each cell as proportion measures. For a rate measure, there are a fixed number of circuits or units for the CLEC,  $n_{2j}$  and a fixed number of units for BST,  $n_{1j}$ . Suppose that the performance measure is a “trouble rate.” The modeling assumption is that the occurrence of a trouble is independent between units and the number of troubles in  $n$  circuits follows a Poisson distribution with mean  $\lambda n$  where  $\lambda$  is the probability of a trouble in 1 circuit and  $n$  is the number of circuits.

In an adjustment cell, if the number of CLEC troubles is greater than 15 and the number of BST troubles is greater than 15, then the Z test is calculated using the normal approximation to the Poisson. In this case, the moments of the truncated Z come directly from properties of the standard normal distribution. Otherwise, if there are very few troubles, the number of CLEC troubles can be modeled using a binomial distribution with  $n$  equal to the total number of troubles (CLEC plus BST troubles.)



In this case, the moments for the truncated Z are calculated explicitly using the binomial distribution.

*Mean Measures*

For mean measures, an adjusted t statistic is calculated for each like-to-like cell which has at least 7 BST and 7 CLEC transactions. A permutation test is used when one or both of the BST and CLEC sample sizes is less than 6. Both the adjusted t statistic and the permutation calculation are described in the technical appendix.

*Ratio Measures*

Rules will be given for computing a cell test statistic for a ratio measure, however, the current plan for measures in this category, namely billing accuracy, does not call for the use of a Z parity statistic.

# APPENDIX D

## Technical Description

We start by assuming that any necessary trimming<sup>1</sup> of the data is complete, and that the data are disaggregated so that comparisons are made within appropriate classes or adjustment cells that define “like” observations.

#### Notation and Exact Testing Distributions

Below, we have detailed the basic notation for the construction of the truncated z statistic. In what follows the word “cell” should be taken to mean a like-to-like comparison cell that has both one (or more) ILEC observation and one (or more) CLEC observation.

$$\begin{aligned}
 L &= \text{the total number of occupied cells} \\
 j &= 1, \dots, L; \text{ an index for the cells} \\
 n_{1j} &= \text{the number of ILEC transactions in cell } j \\
 n_{2j} &= \text{the number of CLEC transactions in cell } j \\
 n_j &= \text{the total number transactions in cell } j; n_{1j} + n_{2j} \\
 X_{1jk} &= \text{individual ILEC transactions in cell } j; k = 1, \dots, n_{1j} \\
 X_{2jk} &= \text{individual CLEC transactions in cell } j; k = 1, \dots, n_{2j} \\
 Y_{jk} &= \text{individual transaction (both ILEC and CLEC) in cell } j \\
 &= \begin{cases} X_{1jk} & k = 1, \dots, n_{1j} \\ X_{2jk} & k = n_{1j} + 1, \dots, n_j \end{cases}
 \end{aligned}$$

$$\Phi^{-1}(\cdot) = \text{the inverse of the cumulative standard normal distribution function}$$

For Mean Performance Measures the following additional notation is needed.

$$\begin{aligned}
 \bar{X}_{1j} &= \text{The ILEC sample mean of cell } j \\
 \bar{X}_{2j} &= \text{The CLEC sample mean of cell } j \\
 s_{1j}^2 &= \text{The ILEC sample variance in cell } j
 \end{aligned}$$

---

<sup>1</sup> When it is determined that a measure should be trimmed, a trimming rule that is easy to implement in a production setting is:

**Trim the ILEC observations to the largest CLEC value from all CLEC observations in the month under consideration.**

That is, no CLEC values are removed; all ILEC observations greater than the largest CLEC observation are trimmed.

$s_{2j}^2$  = The CLEC sample variance in cell j

$\{y_{jk}\}$  = a random sample of size  $n_{2j}$  from the set of  $Y_{j1}, \dots, Y_{jn_j}$ ;  $k = 1, \dots, n_{2j}$

$M_j$  = The total number of distinct pairs of samples of size  $n_{1j}$  and  $n_{2j}$ ;  

$$= \binom{n_j}{n_{1j}}$$

The exact parity test is the permutation test based on the "modified Z" statistic. For large samples, we can avoid permutation calculations since this statistic will be normal (or Student's t) to a good approximation. For small samples, where we cannot avoid permutation calculations, we have found that the difference between "modified Z" and the textbook "pooled Z" is negligible. We therefore propose to use the permutation test based on pooled Z for small samples. This decision speeds up the permutation computations considerably, because for each permutation we need only compute the sum of the CLEC sample values, and not the pooled statistic itself.

A permutation probability mass function distribution for cell j, based on the "pooled Z" can be written as

$$PM(t) = P\left(\sum_k y_{jk} = t\right) = \frac{\text{the number of samples that sum to } t}{M_j},$$

and the corresponding cumulative permutation distribution is

$$CPM(t) = P\left(\sum_k y_{jk} \leq t\right) = \frac{\text{the number of samples with sum } \leq t}{M_j}.$$

For Proportion Performance Measures the following notation is defined

$a_{1j}$  = The number of ILEC cases possessing an attribute of interest in cell j

$a_{2j}$  = The number of CLEC cases possessing an attribute of interest in cell j

$a_j$  = The number of cases possessing an attribute of interest in cell j;  $a_{1j} + a_{2j}$

The exact distribution for a parity test is the hypergeometric distribution. The hypergeometric probability mass function distribution for cell j is

$$HG(h) = P(H = h) = \begin{cases} \frac{\binom{n_{1j}}{h} \binom{n_{2j}}{a_j - h}}{\binom{n_j}{a_j}}, & \max(0, a_j - n_{2j}) \leq h \leq \min(a_j, n_{1j}) \\ 0 & \text{otherwise} \end{cases},$$

and the cumulative hypergeometric distribution is

$$CHG(x) = P(H \leq x) = \begin{cases} 0 & x < \max(0, a_j - n_{2j}) \\ \sum_{h=\max(0, a_j - n_{2j})}^x HG(h), & \max(0, a_j - n_{2j}) \leq x \leq \min(a_j, n_{1j}) \\ 1 & x > \min(a_j, n_{1j}) \end{cases}.$$

For Rate Measures, the notation needed is defined as

- $b_{1j}$  = The number of ILEC base elements in cell  $j$
- $b_{2j}$  = The number of CLEC base elements in cell  $j$
- $b_j$  = The total number of base elements in cell  $j$ ;  $b_{1j} + b_{2j}$
- $\hat{r}_{1j}$  = The ILEC sample rate of cell  $j$ ;  $n_{1j}/b_{1j}$
- $\hat{r}_{2j}$  = The CLEC sample rate of cell  $j$ ;  $n_{2j}/b_{2j}$
- $q_j$  = The relative proportion of ILEC elements for cell  $j$ ;  $b_{1j}/b_j$

The exact distribution for a parity test is the binomial distribution. The binomial probability mass function distribution for cell  $j$  is

$$BN(k) = P(B = k) = \begin{cases} \binom{n_j}{k} q_j^k (1 - q_j)^{n_j - k}, & 0 \leq k \leq n_j \\ 0 & \text{otherwise} \end{cases},$$

and the cumulative binomial distribution is

$$CBN(x) = P(B \leq x) = \begin{cases} 0 & x < 0 \\ \sum_{k=0}^x BN(k), & 0 \leq x \leq n_j \\ 1 & x > n_j \end{cases}.$$

For Ratio Performance Measures the following additional notation is needed.

- $U_{1jk}$  = additional quantity of interest of an individual ILEC transaction in cell  $j$ ;  $k = 1, \dots, n_{1j}$
- $U_{2jk}$  = additional quantity of interest of an individual CLEC transaction in cell  $j$ ;  $k = 1, \dots, n_{2j}$
- $\hat{R}_{ij}$  = the ILEC ( $i = 1$ ) or CLEC ( $i = 2$ ) ratio of the total additional quantity of interest to the base transaction total in cell  $j$ , i.e.,  $\sum_k U_{ijk} / \sum_k X_{ijk}$

### Calculating the Truncated Z

The general methodology for calculating an aggregate level test statistic is outlined below.

1. **Calculate cell weights,  $W_j$ .** A weight based on the number of transactions is used so that a cell, which has a larger number of transactions, has a larger weight. The actual weight formulae will depend on the type of measure.

*Mean or Ratio Measure*

$$W_j = \sqrt{\frac{n_{1j}n_{2j}}{n_j}}$$

*Proportion Measure*

$$W_j = \sqrt{\frac{n_{2j}n_{1j}}{n_j} \cdot \frac{a_j}{n_j} \cdot \left(1 - \frac{a_j}{n_j}\right)}$$

*Rate Measure*

$$W_j = \sqrt{\frac{b_{1j}b_{2j}}{b_j} \cdot \frac{n_j}{b_j}}$$

2. **In each cell, calculate a Z value,  $Z_j$ .** A Z statistic with mean 0 and variance 1 is needed for each cell.

- If  $W_j = 0$ , set  $Z_j = 0$ .
- Otherwise, the actual Z statistic calculation depends on the type of performance measure.

*Mean Measure*

$$Z_j = \Phi^{-1}(\alpha)$$

where  $\alpha$  is determine by the following algorithm.

If  $\min(n_{1j}, n_{2j}) > 6$ , then determine  $\alpha$  as

$$\alpha = P(t_{n_{1j}-1} \leq T_j),$$

that is,  $\alpha$  is the probability that a t random variable with  $n_{1j} - 1$  degrees of freedom, is less than

$$T_j = \begin{cases} t_j + \frac{g}{6} \left( \frac{n_{1j} + 2n_{2j}}{\sqrt{n_{1j} n_{2j} (n_{1j} + n_{2j})}} \right) \left( t_j^2 + \frac{n_{2j} - n_{1j}}{n_{1j} + 2n_{2j}} \right) & t_j \geq t_{\min j} \\ t_j + \frac{g}{6} \left( \frac{n_{1j} + 2n_{2j}}{\sqrt{n_{1j} n_{2j} (n_{1j} + n_{2j})}} \right) \left( t_{\min j}^2 + \frac{n_{2j} - n_{1j}}{n_{1j} + 2n_{2j}} \right) & \text{otherwise} \end{cases},$$

where

$$t_j = \frac{\bar{X}_{1j} - \bar{X}_{2j}}{s_{1j} \sqrt{\frac{1}{n_{1j}} + \frac{1}{n_{2j}}}},$$

$$t_{\min j} = \frac{-3\sqrt{n_{1j}n_{2j}n_j}}{g(n_{1j} + 2n_{2j})}$$

and  $g$  is the median value of all values of

$$\gamma_{1j} = \frac{n_{1j}}{(n_{1j} - 1)(n_{1j} - 2)} \sum_k \left( \frac{X_{1jk} - \bar{X}_{1j}}{s_{1j}} \right)^3$$

with  $n_{1j} > n_{3q}$  for all values of  $j$ .  $n_{3q}$  is the 3 quartile of all values of  $n_{1j}$ .

Note, that  $t_j$  is the “modified Z” statistic. The statistic  $T_j$  is a “modified Z” corrected for the skewness of the ILEC data.

If  $\min(n_{1j}, n_{2j}) \leq 6$ , and

a)  $M_j \leq 1,000$  (the total number of distinct pairs of samples of size  $n_{1j}$  and  $n_{2j}$  is 1,000 or less).

- Calculate the sample sum for all possible samples of size  $n_{2j}$ .
- Rank the sample sums from smallest to largest. Ties are dealt by using average ranks.
- Let  $R_0$  be the rank of the observed sample sum with respect all the sample sums.

$$\alpha = 1 - \frac{R_0 - 0.5}{M_j}$$

b)  $M_j > 1,000$

- Draw a random sample of 1,000 sample sums from the permutation distribution.
- Add the observed sample sum to the list. There are a total of 1001 sample sums. Rank the sample sums from smallest to largest. Ties are dealt by using average ranks.
- Let  $R_0$  be the rank of the observed sample sum with respect all the sample sums.

$$\alpha = 1 - \frac{R_0 - 0.5}{1001}$$

### *Proportion Measure*

$$Z_j = \frac{n_j a_{1j} - n_{1j} a_j}{\sqrt{\frac{n_{1j} n_{2j} a_j (n_j - a_j)}{n_j - 1}}}$$

### *Rate Measure*

$$Z_j = \frac{n_{1j} - n_j q_j}{\sqrt{n_j q_j (1 - q_j)}}$$



*Ratio Measure*

$$Z_j = \frac{\hat{R}_{1j} - \hat{R}_{2j}}{\sqrt{V(\hat{R}_{1j}) \left( \frac{1}{n_{1j}} + \frac{1}{n_{2j}} \right)}}$$

$$V(\hat{R}_{1j}) = \frac{\sum_k (U_{1jk} - \hat{R}_{1j} X_{1jk})^2}{\bar{X}_{1j}^2 (n_{1j} - 1)} = \frac{\sum_k U_{1jk}^2 - 2\hat{R}_{1j} \sum_k (U_{1jk} X_{1jk}) + \hat{R}_{1j}^2 \sum_k X_{1jk}^2}{\bar{X}_{1j}^2 (n_{1j} - 1)}$$

3. **Obtain a truncated Z value for each cell,  $Z_j^*$ .** To limit the amount of cancellation that takes place between cell results during aggregation, cells whose results suggest possible favoritism are left alone. Otherwise the cell statistic is set to zero. This means that positive equivalent Z values are set to 0, and negative values are left alone. Mathematically, this is written as

$$Z_j^* = \min(0, Z_j).$$

4. **Calculate the theoretical mean and variance of the truncated statistic under the null hypothesis of parity,  $E(Z_j^* | H_0)$  and  $\text{Var}(Z_j^* | H_0)$ .** In order to compensate for the truncation in step 3, an aggregated, weighted sum of the  $Z_j^*$  will need to be centered and scaled properly so that the final aggregate statistic follows a standard normal distribution.

- If  $W_j = 0$ , then no evidence of favoritism is contained in the cell. The formulae for calculating  $E(Z_j^* | H_0)$  and  $\text{Var}(Z_j^* | H_0)$  cannot be used. Set both equal to 0.
- If  $\min(n_{1j}, n_{2j}) > 6$  for a mean measure,  $\min\left\{a_{1j} \left(1 - \frac{a_{1j}}{n_{1j}}\right), a_{2j} \left(1 - \frac{a_{2j}}{n_{2j}}\right)\right\} > 9$  for a proportion measure,  $\min(n_{1j}, n_{2j}) > 15$  and  $n_j q_j (1 - q_j) > 9$  for a rate measure, or  $n_{1j}$  and  $n_{2j}$  are large for a ratio measure then

$$E(Z_j^* | H_0) = -\frac{1}{\sqrt{2\pi}}, \text{ and}$$

$$\text{Var}(Z_j^* | H_0) = \frac{1}{2} - \frac{1}{2\pi}.$$

- Otherwise, determine the total number of values for  $Z_j^*$ . Let  $z_{ji}$  and  $\theta_{ji}$ , denote the values of  $Z_j^*$  and the probabilities of observing each value, respectively.

$$E(Z_j^* | H_0) = \sum_i \theta_{ji} z_{ji}, \text{ and}$$

$$\text{Var}(Z_j^* | H_0) = \sum_i \theta_{ji} z_{ji}^2 - [E(Z_j^* | H_0)]^2.$$

The actual values of the z's and  $\theta$ 's depends on the type of measure.

*Mean Measure*

$$N_j = \min(M_j, 1,000), \quad i = 1, \dots, N_j$$

$$z_{ji} = \min\left\{0, \Phi^{-1}\left(1 - \frac{R_i - 0.5}{N_j}\right)\right\} \quad \text{where } R_i \text{ is the rank of sample sum } i$$

$$\theta_j = \frac{1}{N_j}$$

*Proportion Measure*

$$z_{ji} = \min\left\{0, \frac{n_j i - n_{1j} a_j}{\sqrt{\frac{n_{1j} n_{2j} a_j (n_j - a_j)}{n_j - 1}}}\right\}, \quad i = \max(0, a_j - n_{2j}), \dots, \min(a_j, n_{1j})$$

$$\theta_{ji} = \text{HG}(i)$$

*Rate Measure*

$$z_{ji} = \min\left\{0, \frac{i - n_j q_j}{\sqrt{n_j q_j (1 - q_j)}}\right\}, \quad i = 0, \dots, n_j$$

$$\theta_{ji} = \text{BN}(i)$$

*Ratio Measure*

The performance measure that is in this class is billing accuracy. If a parity test were used, the sample sizes for this measure are quite large, so there is no need for a small sample technique. If one does need a small sample technique, then a re-sampling method can be used.

1. Calculate the aggregate test statistic,  $Z^T$ .

$$Z^T = \frac{\sum_j W_j Z_j^* - \sum_j W_j E(Z_j^* | H_0)}{\sqrt{\sum_j W_j^2 \text{Var}(Z_j^* | H_0)}}$$

### The Balancing Critical Value

There are four key elements of the statistical testing process:

1. the null hypothesis,  $H_0$ , that parity exists between ILEC and CLEC services
2. the alternative hypothesis,  $H_a$ , that the ILEC is giving better service to its own customers
3. the Truncated Z test statistic,  $Z^T$ , and
4. a critical value,  $c$

The decision rule<sup>2</sup> is

- If  $Z^T < c$  then accept  $H_a$ .
- If  $Z^T \geq c$  then accept  $H_0$ .

There are two types of error possible when using such a decision rule:

**Type I Error:** Deciding favoritism exists when there is, in fact, no favoritism.

**Type II Error:** Deciding parity exists when there is, in fact, favoritism.

The probabilities of each type of each are:

**Type I Error:**  $\alpha = P(Z^T < c | H_0)$ .

**Type II Error:**  $\beta = P(Z^T \geq c | H_a)$ .

We want a balancing critical value,  $c_B$ , so that  $\alpha = \beta$ .

It can be shown that.

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<sup>2</sup> This decision rule assumes that a negative test statistic indicates poor service for the CLEC customer. If the opposite is true, then reverse the decision rule.

$$c_B = \frac{\sum_j W_j M(m_j, se_j) - \sum_j W_j \frac{-1}{\sqrt{2\pi}}}{\sqrt{\sum_j W_j^2 V(m_j, se_j) + \sum_j W_j^2 \left(\frac{1}{2} - \frac{1}{2\pi}\right)}}.$$

where

$$M(\mu, \sigma) = \mu \Phi\left(\frac{-\mu}{\sigma}\right) - \sigma \phi\left(\frac{-\mu}{\sigma}\right)$$

$$V(\mu, \sigma) = (\mu^2 + \sigma^2) \Phi\left(\frac{-\mu}{\sigma}\right) - \mu \sigma \phi\left(\frac{-\mu}{\sigma}\right) - M(\mu, \sigma)^2$$

$\Phi(\cdot)$  is the cumulative standard normal distribution function, and  $\phi(\cdot)$  is the standard normal density function.

This formula assumes that  $Z_j$  is approximately normally distributed within cell  $j$ . When the cell sample sizes,  $n_{1j}$  and  $n_{2j}$ , are small this may not be true. It is possible to determine the cell mean and variance under the null hypothesis when the cell sample sizes are small. It is much more difficult to determine these values under the alternative hypothesis. Since the cell weight,  $W_j$  will also be small (see calculate weights section above) for a cell with small volume, the cell mean and variance will not contribute much to the weighted sum. Therefore, the above formula provides a reasonable approximation to the balancing critical value.

The values of  $m_j$  and  $se_j$  will depend on the type of performance measure.

### *Mean Measure*

For mean measures, one is concerned with two parameters in each cell, namely, the mean and variance. A possible lack of parity may be due to a difference in cell means, and/or a difference in cell variances. One possible set of hypotheses that capture this notion, and take into account the assumption that transaction are identically distributed within cells is:

$$H_0: \mu_{1j} = \mu_{2j}, \sigma_{1j}^2 = \sigma_{2j}^2$$

$$H_a: \mu_{2j} = \mu_{1j} + \delta_j \cdot \sigma_{1j}, \sigma_{2j}^2 = \lambda_j \cdot \sigma_{1j}^2 \quad \delta_j > 0, \lambda_j \geq 1 \text{ and } j = 1, \dots, L.$$

Under this form of alternative hypothesis, the cell test statistic  $Z_j$  has mean and standard error given by

$$m_j = \frac{-\delta_j}{\sqrt{\frac{1}{n_{1j}} + \frac{1}{n_{2j}}}}, \text{ and}$$

$$se_j = \sqrt{\frac{\lambda_j n_{1j} + n_{2j}}{n_{1j} + n_{2j}}}$$

### *Proportion Measure*

For a proportion measure there is only one parameter of interest in each cell, the proportion of transaction possessing an attribute of interest. A possible lack of parity may be due to a difference in cell proportions. A set of hypotheses that take into account the assumption that transaction are identically distributed within cells while allowing for an analytically tractable solution is:

$$H_0: \frac{p_{2j}(1-p_{1j})}{(1-p_{2j})p_{1j}} = 1$$

$$H_a: \frac{p_{2j}(1-p_{1j})}{(1-p_{2j})p_{1j}} = \psi_j \quad \psi_j > 1 \text{ and } j = 1, \dots, L.$$

These hypotheses are based on the “odds ratio.” If the transaction attribute of interest is a missed trouble repair, then an interpretation of the alternative hypothesis is that a CLEC trouble repair appointment is  $\psi_j$  times more likely to be missed than an ILEC trouble.

Under this form of alternative hypothesis, the within cell asymptotic mean and variance of  $a_{1j}$  are given by<sup>3</sup>

$$E(a_{1j}) = n_j \pi_j^{(1)}$$

$$\text{var}(a_{1j}) = \frac{n_j}{\frac{1}{\pi_j^{(1)}} + \frac{1}{\pi_j^{(2)}} + \frac{1}{\pi_j^{(3)}} + \frac{1}{\pi_j^{(4)}}}$$

where

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<sup>3</sup> Stevens, W. L. (1951) Mean and Variance of an entry in a Contingency Table. *Biometrika*, **38**, 468-470.

$$\begin{aligned}
\pi_j^{(1)} &= f_j^{(1)} \left( n_j^2 + f_j^{(2)} + f_j^{(3)} - f_j^{(4)} \right) \\
\pi_j^{(2)} &= f_j^{(1)} \left( -n_j^2 - f_j^{(2)} + f_j^{(3)} + f_j^{(4)} \right) \\
\pi_j^{(3)} &= f_j^{(1)} \left( -n_j^2 + f_j^{(2)} - f_j^{(3)} + f_j^{(4)} \right) \\
\pi_j^{(4)} &= f_j^{(1)} \left( n_j^2 \left( \frac{2}{\psi_j} - 1 \right) - f_j^{(2)} - f_j^{(3)} - f_j^{(4)} \right) \\
f_j^{(1)} &= \frac{1}{2n_j^2 \left( \frac{1}{\psi_j} - 1 \right)} \\
f_j^{(2)} &= n_j n_{1j} \left( \frac{1}{\psi_j} - 1 \right) \\
f_j^{(3)} &= n_j a_j \left( \frac{1}{\psi_j} - 1 \right) \\
f_j^{(4)} &= \sqrt{n_j^2 \left[ 4n_{1j} (n_j - a_j) \left( \frac{1}{\psi_j} - 1 \right) + \left( n_j + (a_j - n_{1j}) \left( \frac{1}{\psi_j} - 1 \right) \right)^2 \right]}
\end{aligned}$$

Recall that the cell test statistic is given by

$$Z_j = \frac{n_j a_{1j} - n_{1j} a_j}{\sqrt{\frac{n_{1j} n_{2j} a_j (n_j - a_j)}{n_j - 1}}}$$

Using the equations above, we see that  $Z_j$  has mean and standard error given by

$$\begin{aligned}
m_j &= \frac{n_j^2 \pi_j^{(1)} - n_{1j} a_j}{\sqrt{\frac{n_{1j} n_{2j} a_j (n_j - a_j)}{n_j - 1}}}, \text{ and} \\
se_j &= \sqrt{\frac{n_j^3 (n_j - 1)}{n_{1j} n_{2j} a_j (n_j - a_j) \left( \frac{1}{\pi_j^{(1)}} + \frac{1}{\pi_j^{(2)}} + \frac{1}{\pi_j^{(3)}} + \frac{1}{\pi_j^{(4)}} \right)}}.
\end{aligned}$$

### *Rate Measure*

A rate measure also has only one parameter of interest in each cell, the rate at which a phenomenon is observed relative to a base unit, e.g. the number of troubles per available line. A possible lack of parity may be due to a difference in cell rates. A set of hypotheses that take into account the assumption that transaction are identically distributed within cells is:

$$H_0: r_{1j} = r_{2j}$$

$$H_a: r_{2j} = \varepsilon_j r_{1j} \quad \varepsilon_j > 1 \text{ and } j = 1, \dots, L.$$

Given the total number of ILEC and CLEC transactions in a cell,  $n_j$ , and the number of base elements,  $b_{1j}$  and  $b_{2j}$ , the number of ILEC transaction,  $n_{1j}$ , has a binomial distribution from  $n_j$  trials and a probability of

$$q_j^* = \frac{r_{1j} b_{1j}}{r_{1j} b_{1j} + r_{2j} b_{2j}}.$$

Therefore, the mean and variance of  $n_{1j}$ , are given by

$$\begin{aligned} E(n_{1j}) &= n_j q_j^* \\ \text{var}(n_{1j}) &= n_j q_j^* (1 - q_j^*) \end{aligned}$$

Under the null hypothesis

$$q_j^* = q_j = \frac{b_{1j}}{b_j},$$

but under the alternative hypothesis

$$q_j^* = q_j^a = \frac{b_{1j}}{b_{1j} + \varepsilon_j b_{2j}}.$$

Recall that the cell test statistic is given by

$$Z_j = \frac{n_{1j} - n_j q_j}{\sqrt{n_j q_j (1 - q_j)}}.$$

Using the relationships above, we see that  $Z_j$  has mean and standard error given by

$$m_j = \frac{n_j (q_j^a - q_j)}{\sqrt{n_j q_j (1 - q_j)}} = (1 - \varepsilon_j) \frac{\sqrt{n_j b_{1j} b_{2j}}}{b_{1j} + \varepsilon_j b_{2j}}, \text{ and}$$

$$se_j = \sqrt{\frac{q_j^a (1 - q_j^a)}{q_j (1 - q_j)}} = \sqrt{\varepsilon_j} \frac{b_j}{b_{1j} + \varepsilon_j b_{2j}}.$$

*Ratio Measure*

As with mean measures, one is concerned with two parameters in each cell, the mean and variance, when testing for parity of ratio measures. As long as sample sizes are large, as in the case of billing accuracy, the same method for finding  $m_j$  and  $se_j$  that is used for mean measures can be used for ratio measures.

### **Determining the Parameters of the Alternative Hypothesis**

In this appendix we have indexed the alternative hypothesis of mean measures by two sets of parameters,  $\lambda_j$  and  $\delta_j$ . Proportion and rate measures have been indexed by one set of parameters each,  $\psi_j$  and  $\varepsilon_j$  respectively. A major difficulty with this approach is that more than one alternative will be of interest; for example we may consider one alternative in which all the  $\delta_j$  are set to a common non-zero value, and another set of alternatives in each of which just one  $\delta_j$  is non-zero, while all the rest are zero. There are very many other possibilities. Each possibility leads to a single value for the balancing critical value; and each possible critical value corresponds to many sets of alternative hypotheses, for each of which it constitutes the correct balancing value.

The formulas we have presented can be used to evaluate the impact of different choices of the overall critical value. For each putative choice, we can evaluate the set of alternatives for which this is the correct balancing value. While statistical science can be used to evaluate the impact of different choices of these parameters, there is not much that an appeal to statistical principles can offer in directing specific choices. Specific choices are best left to telephony experts. Still, it is possible to comment on some aspects of these choices:

- Parameter Choices for  $\lambda_j$ . The set of parameters  $\lambda_j$  index alternatives to the null hypothesis that arise because there might be greater unpredictability or variability in the delivery of service to a CLEC customer over that which would be achieved for an otherwise comparable ILEC customer. While concerns about differences in the variability of service are important, it turns out that the truncated Z testing which is being recommended here is relatively insensitive to all but very large values of the  $\lambda_j$ . Put another way, reasonable differences in the values chosen here could make very little difference in the balancing points chosen.
- Parameter Choices for  $\delta_j$ . The set of parameters  $\delta_j$  are much more important in the choice of the balancing point than was true for the  $\lambda_j$ . The reason for this is that they directly index differences in average service. The truncated Z test is very sensitive to any such differences; hence, even small disagreements among experts in the choice of the  $\delta_j$  could be very important. Sample size matters here too. For example, setting all the  $\delta_j$  to a single value –  $\delta_j = \delta$  – might be fine for tests across individual CLECs where currently in North Carolina the CLEC customer bases are not too different. Using the same value of  $\delta$  for the overall state testing does not seem sensible. At the state level we are aggregating over CLECs, so using the same  $\delta$  as for an individual



CLEC would be saying that a "meaningful" degree of disparity is one where the violation is the same ( $\delta$ ) for each CLEC. But the detection of disparity for any component CLEC is important, so the relevant "overall"  $\delta$  should be smaller.

- Parameter Choices for  $\psi_j$  or  $\epsilon_j$ . The set of parameters  $\psi_j$  or  $\epsilon_j$  are also important in the choice of the balancing point for tests of their respective measures. The reason for this is that they directly index increases in the proportion or rate of service performance. The truncated Z test is sensitive to such increases; but not as sensitive as the case of  $\delta$  for mean measures. Sample size matters here too. As with mean measures, using the same value of  $\psi$  or  $\epsilon$  for the overall state testing does not seem sensible.

The three parameters are related however. If a decision is made on the value of  $\delta$ , it is possible to determine equivalent values of  $\psi$  and  $\epsilon$ . The following equations, in conjunction with the definitions of  $\psi$  and  $\epsilon$ , show the relationship with delta.

$$\delta = 2 \cdot \arcsin(\sqrt{\hat{p}_2}) - 2 \cdot \arcsin(\sqrt{\hat{p}_1})$$

$$\delta = 2\sqrt{\hat{r}_2} - 2\sqrt{\hat{r}_1}$$

The bottom line here is that beyond a few general considerations, like those given above, a principled approach to the choice of the alternative hypotheses to guard against must come from elsewhere.

#### Decision Process

Once  $Z^T$  has been calculated, it is compared to the balancing critical value to determine if the ILEC is favoring its own customers over a CLEC's customers.

This critical value changes as the ILEC and CLEC transaction volume change. One way to make this transparent to the decision-maker, is to report the difference between the test statistic and the critical value,  $diff = Z^T - c_B$ . If favoritism is concluded when  $Z^T < c_B$ , then the  $diff < 0$  indicates favoritism.

This makes it very easy to determine favoritism: a positive  $diff$  suggests no favoritism, and a negative  $diff$  suggests favoritism.

# APPENDIX E

## BST SEEM Remedy Procedure

**BST SEEM REMEDY PROCEDURE**

**TIER-1 CALCULATION FOR RETAIL ANALOGUES:**

1. Calculate the overall test statistic for each ALEC;  $z_{ALEC-1}^T$  (Per Statistical Methodology discussed by Dr. Mulrow)
2. Calculate the balancing critical value ( $C_{ALEC-1}$ ) that is associated with the alternative hypothesis (for fixed parameters  $\delta, \Psi, \text{ or } \epsilon$ )
3. If the overall test statistic is equal to or above the balancing critical value, stop here. That is, if  $C_{ALEC-1} < z_{ALEC-1}^T$ , stop here. Otherwise, go to step 4.
4. Calculate the Parity Gap by subtracting the value of step 2 from that of step 1.  $ABS(z_{ALEC-1}^T - C_{ALEC-1})$
5. Calculate the Volume Proportion using a linear distribution with slope of  $1/4$ . This can be accomplished by taking the absolute value of the Parity Gap from step 4 divided by 4;  $ABS((z_{ALEC-1}^T - C_{ALEC-1}) / 4)$ . All parity gaps equal or greater to 4 will result in a volume proportion of 100%.
6. Calculate the Affected Volume by multiplying the Volume Proportion from step 5 by the Total Impacted ALEC-1 Volume ( $I_c$ ) in the negatively affected cell; where the cell value is negative.
7. Calculate the payment to ALEC-1 by multiplying the result of step 6 by the appropriate dollar amount from the fee schedule.
8. Then, ALEC-1 payment = Affected Volume<sub>ALEC1</sub> \* \$\$ from Fee Schedule

**Example: ALEC-1 Missed Installation Appointments (MIA) for Resale POTS.**

Note – the statistical results are only illustrative. They are not a result of a statistical test of this data.

	$n_I$	$N_C$	$I_c$	$MIA_I$	$MIA_C$	$z_{ALEC-1}^T$	$C_B$	Parity Gap	Volume Proportion	Affected Volume
State	50000	600	96	9%	16%	-1.92	-0.21	1.71	0.4275	
Cell						$z_{ALEC-1}$				
1		150	17	0.091	0.113	-1.994				8
2		75	8	0.176	0.107	0.734				
3		10	4	0.128	0.400	-2.619				2
4		50	17	0.158	0.340	-2.878				8
5		15	2	0.245	0.133	1.345				
6		200	26	0.156	0.130	0.021				
7		30	7	0.166	0.233	-0.600				3
8		20	3	0.106	0.150	-0.065				2
9		40	9	0.193	0.225	-0.918				4
10		10	3	0.160	0.300	-0.660				2

29

where  $n_I$  = ILEC observations and  $n_C$  = ALEC-1 observations  
 Payout for ALEC-1 is (29 units) \* (\$100/unit) = \$2,900

**Example: ALEC-1 Order Completion Interval (OCI) for Resale POTS**

	$n_I$	$n_C$	$I_c$	$OCI_I$	$OCI_C$	$Z_{ALEC-1}^T$	$C_B$	Parity Gap	Volume Proportion	Affected Volume
State	50000	600	600	5days	7days	-1.92	-0.21	1.71	0.4275	
Cell						$Z_{ALEC-1}$				
1		150	150	5	7	-1.994				64
2		75	75	5	4	0.734				
3		10	10	2	3.8	-2.619				4
4		50	50	5	7	-2.878				21
5		15	15	4	2.6	1.345				
6		200	200	3.8	2.7	0.021				
7		30	30	6	7.2	-0.600				13
8		20	20	5.5	6	-0.065				9
9		40	40	8	10	-0.918				17
10		10	10	6	7.3	-0.660				4

133

where  $n_I$  = ILEC observations and  $n_C$  = ALEC-1 observations

Payout for ALEC-1 is (133 units) \* (\$100/unit) = \$13,300

**TIER-2 CALCULATION for RETAIL ANALOGUES:**

1. Tier-2 is triggered by three consecutive monthly failures of any Tier 2 Remedy Plan submetric.
2. Therefore, calculate monthly statistical results and affected volumes as outlined in steps 2 through 6 for the ALEC Aggregate performance. Determine average monthly affected volume for the rolling 3 month period.
3. Calculate the payment to State Designated Agency by multiplying average monthly volume by the appropriate dollar amount from the Tier-2 fee schedule.

Therefore, State Designated Agency payment = Average monthly volume \* \$\$ from Fee Schedule

**Example: ALEC-A Missed Installation Appointments (MIA) for Resale POTS**

State	$n_I$	$n_C$	$I_C$	$MIA_I$	$MIA_C$	$Z_{ALEC-A}^T$	$C_B$	Parity Gap	Volume Proportion	Affected Volume
Month 1	180000	2100	336	9%	16%	-1.92	-0.21	1.71	0.4275	
Cell						$Z_{ALEC-A}$				
1		500	56	0.091	0.112	-1.994				24
2		300	30	0.176	0.100	0.734				
3		80	27	0.128	0.338	-2.619				12
4		205	60	0.158	0.293	-2.878				26
5		45	4	0.245	0.089	1.345				
6		605	79	0.156	0.131	0.021				
7		80	19	0.166	0.238	-0.600				9
8		40	6	0.106	0.150	-0.065				3
9		165	36	0.193	0.218	-0.918				16
10		80	19	0.160	0.238	-0.660				9

99

where  $n_I$  = ILEC observations and  $n_C$  = ALEC-A observations

Assume Months 2 and 3 have the same affected volumes. Payout 99 units \* \$300/unit = \$29,700.

**TIER-1 CALCULATION FOR BENCHMARKS**

1. For each ALEC, with five or more observations, calculate monthly performance results for the State.
2. ALECs having observations (sample sizes) between 5 and 30 will use Table I below. The only exception will be for Collocation Percent Missed Due Dates.

**Table I Small Sample Size Table  
(95% Confidence)**

Sample Size	Equivalent 90% Benchmark	Equivalent 95% Benchmark	Sample Size	Equivalent 90% Benchmark	Equivalent 95% Benchmark
5	60.00%	80.00%	16	75.00%	87.50%
6	66.67%	83.33%	17	76.47%	82.35%
7	71.43%	85.71%	18	77.78%	83.33%
8	75.00%	75.00%	19	78.95%	84.21%
9	66.67%	77.78%	20	80.00%	85.00%
10	70.00%	80.00%	21	76.19%	85.71%
11	72.73%	81.82%	22	77.27%	86.36%
12	75.00%	83.33%	23	78.26%	86.96%
13	76.92%	84.62%	24	79.17%	87.50%
14	78.57%	85.71%	25	80.00%	88.00%
15	73.33%	86.67%	26	80.77%	88.46%
			27	81.48%	88.89%
			28	78.57%	89.29%
			29	79.31%	86.21%
			30	80.00%	86.67%

3. If the percentage (or equivalent percentage for small samples) meets the benchmark standard, stop here. Otherwise, go to step 4.
4. Determine the Volume Proportion by taking the difference between the benchmark and the actual performance result.
5. Calculate the Affected Volume by multiplying the Volume Proportion from step 4 by the Total Impacted ALEC-1 Volume.
6. Calculate the payment to ALEC-1 by multiplying the result of step 5 by the appropriate dollar amount from the fee schedule.

$$\text{ALEC-1 payment} = \text{Affected Volume}_{\text{ALEC-1}} * \$\$ \text{ from Fee Schedule}$$

Example: ALEC-1 Percent Missed Due Dates for Collocations

	$n_C$	Benchmark	MIA <sub>C</sub>	Volume Proportion	Affected Volume
State	600	10%	13%	.03	18

$$\text{Payout for ALEC-1 is } (18 \text{ units}) * (\$5000/\text{unit}) = \underline{\$90,000}$$

**TIER-1 CALCULATION FOR BENCHMARKS (in the form of a target):**

1. For each ALEC with five or more observations calculate monthly performance results for the State.
2. ALECs having observations (sample sizes) between 5 and 30 will use Table I above.
3. Calculate the interval distribution based on the same data set used in step 1.
4. If the ‘percent within’ (or equivalent percentage for small samples) meets the benchmark standard, stop here. Otherwise, go to step 5.
5. Determine the Volume Proportion by taking the difference between benchmark and the actual performance result.
6. Calculate the Affected Volume by multiplying the Volume Proportion from step 5 by the Total ALEC-1 Volume.
7. Calculate the payment to ALEC-1 by multiplying the result of step 6 by the appropriate dollar amount from the fee schedule.

$$\text{ALEC-1 payment} = \text{Affected Volume}_{\text{ALEC1}} * \$\$ \text{ from Fee Schedule}$$

Example: ALEC-1 Reject Timeliness

	n <sub>c</sub>	Benchmark	Reject Timeliness	Volume Proportion	Affected Volume
State	600	95% within 1 hour	93% within 1 hour	.02	12

$$\text{Payout for ALEC-1 is } (12 \text{ units}) * (\$100/\text{unit}) = \underline{\$1,200}$$

**TIER-2 CALCULATIONS for BENCHMARKS:**

Tier-2 calculations for benchmark measures are the same as the Tier-1 benchmark calculations except the ALEC Aggregate data is evaluated over a three consecutive month period.





# **EXHIBIT AJV-4**

## **Correlated/Duplicated Measures**

## CORRELATED/DUPLICATED MEASUREMENTS

Using the Table of Contents in the permanent SQM the following list by Section are the measurements that are correlated/duplicated.

### **Section 1: Operations Support Systems (OSS)**

OSS1: Average Response Time Pre-Ordering/Ordering
OSS2: Interface Availability Pre-Order/Ordering
CM-5: Notification of CLEC Network Outages

OSS3: Interface Availability – Maintenance
OSS4: Response Interval – Maintenance

### **Section 2: Ordering**

O-3: Percent Flow-Through Service Request (Summary)
O-4: Percent Flow-Through Service Request (Detail)

O-9: Firm Order Confirmation Timeliness
P-9: Total Service Order Cycle Time
P-12: LNP – Total Service Order Cycle Time
O-10: Service Inquiry with FOC Response Time
O-15: LNP - Firm Order Confirmation Timeliness Interval Distribution & Firm Order Confirmation Average Interval

O-8: Reject Interval
O-14: LNP Reject Interval

### **Section 3: Provisioning**

P-1: Mean Held Order Interval & Distribution Interval
P-2: Average Jeopardy Notice Interval & Percentage of Orders Given Jeopardy Notices
P-3: Percent Missed Installation Appointments
P-4: Average Order Completion Interval (OCI) & Order Completion Interval Distribution
P-5: Average Completion Notice Interval
P-9: Total Service Order Cycle Time
P-12: LNP – Total Service Order Cycle Time

**Section 4: Maintenance & Repair**

M&R-1: Missed Repair Appointments  
 M&R-3: Maintenance Average Duration  
 M&R-5: Out of Service (OOS) > 24 Hours

M&R-2: Customer Trouble Report Rate  
 M&R-4: Percent Repeat Troubles Within 30 Days  
 M&R-6: Average Answer Time – Repair  
 P-8: % Provisioning Troubles Within 30 Days of Service order completion

**Section 5: Billing**

B-4: Usage Data Delivery Completeness  
 B-5: Usage Data Delivery Timeliness  
 B-6: Mean Time to Deliver Usage

**Section 6: Operator Services and Directory Assistance**

OS-1: Speed to Answer Performance/Average Speed to Answer – Toll  
 OS-2: Speed to Answer Performance/Percent Answered in “X” Seconds – Toll

OS-3: Speed to Answer Performance/Average Speed to Answer – Directory Assistance  
 OS-4: Speed to Answer Performance/Percent Answered in “X” Seconds – Directory Assistance

**Section 7: Database Update Information**

M&R-2: Customer Trouble Report Rate  
 D-1: Average Database Update Interval  
 D-2: Percent Database Update Accuracy  
 D-3: Percent NXXs Loaded by the LERG Effective Date

**Section 8: E911**

E-1: Timeliness  
 E-3: Mean Interval

**Section 9: Trunk Group Performance**

TGP-1: Trunk Group Performance – Aggregate  
TGP-2: Trunk Group Performance – CLEC Specific

**Section 10: Collocation**

C-2: Collocation Average Arrangement Time  
C-3: Collocation Percent of Due Dates Missed

**Section 11: Change Management**

CM-1: Timeliness of Change Management Notices  
CM-2: Change Management Notice Average Delay Days

CM-3: Timeliness of Documents Associated with Change  
CM-4: Change Management Documentation Average Delay Days



# **EXHIBIT AJV-5**

**Retail Analog / Benchmarks  
Differences in Interim SQM and Permanent SQM**

## RETAIL ANALOG / BENCHMARKS DIFFERENCES IN INTERIM SQM AND PERMANENT SQM

Item No.	Measurement	Interim SQM	Permanent SQM	Explanation
OSS-1	Average Response Time	Parity + 2 sec	Parity + 4 sec	The benchmark proposed for the permanent SQM is the same as was proposed for the interim SQM. This benchmark reflects what a reasonable level of performance would be with regard to current system capabilities. Benchmarks should be no greater than the minimum level of performance required to provide nondiscriminatory treatment. To do otherwise actually requires BellSouth to give CLECs preferential treatment under the guise of parity.
O-8	Reject Interval	97% in 1 hour	95% in 1 hour	The benchmark proposed for the permanent SQM is the same as was proposed for the interim SQM. This benchmark reflects what a reasonable level of performance would be with regard to current system capabilities. Benchmarks should be no greater than the minimum level of performance required to provide nondiscriminatory treatment. To do otherwise actually requires BellSouth to give CLECs preferential treatment under the guise of parity.
O-12	Speed of Answer in Ordering Center	Retail Parity	Diagnostic	Retail parity is inappropriate because calls to the Ordering Center for CLECs are for an entirely different purpose than calls to the Retail Ordering Center. Calls handled by the Retail Center are principally to take orders from customers. Conversely, CLECs don't place orders by phone, but call the Ordering Center generally when they have questions about an order they are placing by some other means. Consequently, the CLEC Ordering Center is not designed to handle calls the way a Retail Ordering Center does. Also, speed of answering calls to the CLEC Ordering Center do not indicate anything about BellSouth performance in handling orders so the measure should be diagnostic.
P-7A	Hot Cut Timeliness	95% in 15 min of start		We are proposes to have a different benchmark where the hot cut involves cutting over customers served by IDLC. Generally, where IDLC is involved another loop not on IDLC must be substituted. This process takes more time and should allow a longer window for completion.

## RETAIL ANALOG / BENCHMARKS DIFFERENCES IN INTERIM SQM AND PERMANENT SQM

Item No.	Measurement	Interim SQM	Permanent SQM	Explanation
P-13	LNP – Avg. Disconnect Timeliness	95% in 15 min.	95% in 24 hours	A CLEC can port multiple numbers and the clock starts when the first activate message is sent. BellSouth does not close the order until the last number is actually disconnected. As a result, CLECs control the time interval since BellSouth cannot disconnect a number until a message is received from a CLEC and the CLEC may not send the disconnect message until the last number is disconnected. As the LCSC has to manually issue these orders, 15 minutes is not an appropriate benchmark.
B-4	Usage Data Timeliness	Retail Parity	> 98%	The usage data provided to CLECs uses different systems that in many cases is different data than that used for retail. Consequently it is inappropriate to use a retail analog. Instead a benchmark is proposed.
B-5	Usage Data Completeness	Retail Parity	≥ 95%	The usage data provided to CLECs uses different systems that in many cases is different data than that used for retail. Consequently it is inappropriate to use a retail analog. Instead a benchmark is proposed.
B-6	Mean Time to Delivery Usage	Retail Parity	≤ 5 days	The usage data provided to CLECs uses different systems that in many cases is different data than that used for retail. Consequently it is inappropriate to use a retail analog. Instead a benchmark is proposed.
C-1	Collocation Average Response Time	Dates are pre-FCC Order of 4/14/01	Dates Ordered by FCC on 4/14/01	The interim SQM was developed before the FCC's order of April 14, 2001 that changed these collocation intervals. The permanent SQM reflects the FCC's current intervals and the interim SQM does not.
CM-2	Average Delay Days Change	90% ≤ 8 days	≤ 8 days	The permanent SQM benchmark is more stringent than the interim. The structure of the benchmark doesn't match the measurements. The measurement indicates the average time it takes to provide certain information to CLECs. A benchmark based on the time to provide 90% of that information unnecessarily introduces an additional complication.
CM-4	Mgmt Notices / Documentation	90% ≤ 8 days	≤ 8 days	The permanent SQM benchmark is more stringent than the interim. The structure of the benchmark doesn't match the measurements. The measurement indicates the average time it takes to provide certain information to CLECs. A benchmark based on the time to provide 90% of that information unnecessarily introduces an additional complication.