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RECORDS AND REPORTING

August 25, 2000

Mrs. Blanca S. Bayó Director, Division of Records and Reporting Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850

Re: Docket No. 000121-TP (OSS)

Dear Ms. Bayó:

Enclosed is an original and 15 copies of BellSouth Telecommunications, Inc.'s Comments, which we ask that you file in the captioned matter.

A copy of this letter is enclosed. Please mark it to indicate that the original was filed and return the copy to me. Copies have been served to the parties shown on the attached Certificate of Service.

Sincerely,

hillip (ann. Carver J. Phillip Carver

Enclosures

APP

cc: All parties of record CAF CMP Marshall M. Criser, III COM Nancy B. White CTR R. Douglas Lackey ECR LEG OPC PAt RGO RECEIVED & FILED SEC SER OTH FPSC-BU RECORDS

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CERTIFICATE OF SERVICE Docket No. 000121-TP

I HEREBY CERTIFY that a true and correct copy of the foregoing was served via

U.S. Mail this 25th day of August, 2000 to the following:

Timothy Vaccaro Staff Counsel Florida Public Service Commission Division of Legal Services 2540 Shumard Oak Boulevard Tallahassee, FL 32399-0850

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Catherine F. Boone, Esq. Covad Communications Company 10 Glenlake Parkway Suite 650 Atlanta, Georgia 30328

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BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Investigation into the) Establishment of Operations Support) Systems Permanent Performance) Measures for Incumbent Local Exchange) Telecommunications Companies)

Docket No. 000121-TP

Filed: August 25, 2000

BELLSOUTH TELECOMMUNICATION, INC.'S COMMENTS

BellSouth Telecommunications, Inc. ("BellSouth") hereby files its

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At the time of the above-described workshop, Staff directed all parties

having a set of proposed performance measures to submit them on this date.

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as Exhibit A. BellSouth also provides below its Comments on each of the issues

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The ultimate answers to the above-listed issues are, respectively, that the Commission does not have the authority to establish an enforcement mechanism of the type contemplated in a generic proceeding, and that this mechanism does constitute an award of damages. BellSouth will address the second of these issues first because it is the simpler of the two.

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Historically, the Commission has had in place rules that set certain standards for BellSouth's retail service. (See Chapter 25-4, Florida Administrative Code). These rules are, in effect, performance measurements that apply to retail service offerings. If a carrier violates these rules, it is subject to precisely the same type of penalties that would apply to any violation of the Commission rules. Specifically, a proceeding is held to determine whether a violation--as defined in 364.285, Florida Statutes--has occurred, and, if so, a penalty is assessed as provided in this statutory provision. Collected penalties are deposited with the State, in the General Revenue Fund (§ 364.285(1), F.S.)

In contrast, what appears to be contemplated in this docket is a set of "enforcement mechanisms" whereby an ILEC that has failed to meet performance standards that apply to its service to an ALEC (in effect, a wholesale customer) would be made to pay money directly to the ALEC. Further, the financial penalty would be pre-determined and the payment of the penalty automatic. Under this arrangement, it is not possible to view this payment of money as anything other than an award of damages.

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As BellSouth stated in its Supplementary Comments (filed April 7, 2000), this Commission has already ruled that it lacks the authority under state law to award damages for the breach of an interconnection agreement. These prior Commission decisions would be the end of this inquiry but for the recent entry of an Order by the United States District Court for the Northern District of Florida (MCI Telecommunications Corporation v. BellSouth Telecommunications, Inc., Case No. 4:97 CV 141-RH, entered June 6, 2000). In that case, the Federal Court considered the claim of MCI that this Commission erred by refusing to consider the question of whether a provision for damages should be included in the interconnection agreement between the parties. The Federal Court prefaced its consideration of this issue by categorizing it as follows: "As part of its Petition for Arbitration before the Florida Commission, MCI sought to include in the interconnection agreement specific performance criteria and a compensation mechanism similar to a liquidated damages provision." (Order, p. 31-32) (emphasis added). Although a variety of euphemisms have been applied to the subject damages (e.g., enforcement mechanisms), the Federal Court was fairly

clear as to what was the subject of this portion of its Order. The Court consistently referred to MCI's request as being for a <u>compensation mechanism</u>. (See, e.g., Id., pp. 32-34, 35 through 37).¹

From a legal standpoint, it is simply not possible to see the payments contemplated in this proceeding as anything other than damages. Clearly, these payments are a form of, as the Federal Court put it, compensation mechanism. Further, as stated above, there are marked differences in this approach to "penalties" and the historical manner in which this Commission has administered penalties. These facts, taken together, make it clear that the subject enforcement mechanisms can only be viewed as a payment of damages.

issue i

The first issue, whether the Commission has the authority to set in a generic context enforcement mechanism that is tantamount to damages must be answered in the negative; although, this issue presents a somewhat more difficult question. Again, much of the consideration of enforcement mechanisms in this docket would not be taking place if not for the Federal Court's recent decision. There is nothing in the Court's decision, however, that can be read as an endorsement of including an enforcement mechanisms/liquidated damages provision in interconnection agreements, and there is nothing that even contemplates that a provision of this sort would be developed in the context of a generic docket.

¹ It is also noteworthy that in the presentation that MCI made to this Commission on August 8, 2000, its printed materials consistently referred to <u>its</u> proposed enforcement mechanism as a <u>remedy</u> plan.

Although the Federal Court suggested that this Commission might well have the ability to award liquidated damages under state law (contrary to the Commission's finding), the gravamen of the initial stage of the decision was that it simply does not matter. The Court noted in this regard that "if a compensation provision were truly required by the Telecommunications Act and could be adopted in some form without imposing on the Florida Commission an unconstitutional burden . . . [Citation Omitted] . . ., then any contrary Florida law obviously would not preclude adoption of such a provision." (Order, p. 36). Having opined that Federal law, in effect, pre-empts state law, the Court went on to hold that this Commission must consider literally anything that a party raises in an arbitration. The Court's logic was as follows: 1) parties are free to negotiate anything they wish; 2) to the extent negotiations fail to yield an agreement, parties may raise in arbitration issues that were the subject of negotiations; 3) when a Commission undertakes to arbitrate a dispute between the parties, it is required to arbitrate all "open issues", i.e., whatever the parties raise. This constitutes perhaps the broadest interpretation of the Act that has been made by any Federal Court in the Country. Still, the Court was careful to clarify its ruling as follows:

Nothing in this Order should be read as an indication that the Telecommunications Act imposes on state Commissions an obligation to perform any enforcement role requested by the parties, or that Congress lawfully could impose any such obligation on state commissions. The holding here is simply that, having undertaken to arbitration "any open issues" under the Act, the Florida Commission must arbitrate the open issue of whether or not the parties' arbitrated interconnection agreement should or should not include an enforcement or compensation mechanism of the type requested by MCI."

(ld., p. 36, footnote 16).

Thus, the Federal Court's decision really relates to the scope of the duty of the Commission to arbitrate "open issues." The fact that the particular open issue that prompted the Court's decision involved a liquidated damages-type compensation mechanism was almost coincidental. Viewed in proper context, it is obvious that there is nothing in this decision that supports the view that the Commission should undertake in the context of a generic proceeding to set enforcement remedies that would be utilized in all future interconnection agreements. In fact, given the actual logic of the Federal Court's decision, it would tend to support precisely the opposite conclusion.

Again, the Court found that in an arbitration the Commission must resolve all open issues. Logically, the arbitration of all open issues in a proceeding would seem to require a consideration of the position of the parties on the issues. If the Commission were to set in advance of any given arbitration, a generic set of enforcement mechanisms with the intention of simply placing them into each subsequently negotiated or arbitrated contract, then this would effectively preempt the consideration of any differing set of enforcement mechanisms that a party might raise in an arbitration. In other words, if the Commission uses a predetermined set of enforcement mechanisms in future arbitrations, and declines to consider alternatives, this approach would appear to contradict the ruling of the Federal Court. Thus, paradoxically, the Court's decision, while unquestionably having the effect of broadening the scope of arbitrations, will in all likelihood also

have the effect of narrowing the scope of potentially arbitrable issues that can be dealt with in a generic proceeding.

The only other possibility if the Commission sets generic enforcement mechanisms is that the Commission would, nevertheless, consider alternative enforcement mechanisms when raised in arbitrations in order to resolve the "open issue" of the particular enforcement mechanisms that should be placed in a particular arbitration agreement. If the Commission were to take this approach, however, it would undercut the usefulness of setting generic enforcement mechanisms in advance. Thus, the Federal Court's decision has placed on shaky ground any attempt to deal with enforcement mechanisms on a generic basis before the fact of any given arbitration.

Beyond the narrow question of whether the Commission <u>can</u> set damagelike enforcement mechanisms is the equally important question of whether it should do so. BellSouth believes that it is inappropriate for this Commission, even if concludes that it can set these mechanisms generically, to proceed directly to a process that is designed to do so. Instead, the question of whether these mechanisms are necessary (and the related question of whether it is preferable to set them on a generic basis) is of extreme importance and deserves careful scrutiny.

Again, the Federal Court made it clear that it was not endorsing enforcement mechanisms. Moreover, the decision of the Federal Court is consistent with the decision of other Federal Courts. In other words, when Commissions have declined to set enforcement mechanisms, this decision has

been upheld. To give one example, in an arbitration in Kentucky between MCI and BellSouth, MCI requested performance standards, reporting requirements and penalty provisions. The Kentucky Commission found that there was no need for the requested mechanisms and rejected MCI's request. (Order entered December 20, 1996, Case No. 96-98). Upon review, the Federal District Court for the Eastern District of Kentucky held that declining to set performance measurements or enforcement mechanisms was within the discretion of the Kentucky Commission under the Act. <u>MCI Telecommunications Corp. v.</u> <u>BellSouth Telecommunications</u>, 40 F Supp 2d 416 (E.D. Ky 1999). Specifically, the Court refused to read the Act to require that a Commission impose these mechanisms (Id., p. 428).

Further, the question of whether an enforcement mechanism is necessary should be considered in the context within which this mechanism has been utilized by the FCC. In the Orders approving the only two successful 271 applications to date (Bell Atlantic's New York application and SBC's Texas application), there is nothing to suggest that the FCC considers enforcement mechanisms as necessary to demonstrate checklist compliance under 271. Instead, the FCC stated specifically that it considered enforcement mechanisms only to the extent that these mechanisms serve the public interest by guarding against backsliding after 271 authority is granted. Without holding that enforcement mechanisms were the only way to ensure that there will be no backsliding, the FCC ruled that this is an acceptable means to counter

backsliding, and it considered enforcement mechanisms solely for this purpose.² Given this, BellSouth believes that it would be inappropriate for this Commission to proceed without carefully considering and resolving the issue of whether enforcement mechanisms should be dealt with generically and, if so, when and for what purpose.

Consistent with the FCC's recent Orders, BellSouth has developed a set of performance measurements and enforcement mechanisms, and has included them in negotiated interconnection agreements. In keeping with the prescription of the FCC, these enforcement mechanisms will go into place <u>only</u> after BellSouth has 271 authority. BellSouth believes that its plan will satisfy the FCC's concerns by protecting the public interest post-271. Further, BellSouth will continue to make these available in the context of interconnection agreements whether the Commission goes forward with a generic docket or not.

Given the above, BellSouth believes that this Commission should not consider ordering in a generic context enforcement mechanisms that would go into effect <u>pre-271</u>, even if the Commission finds that it has the legal ability to do so. Of course, other parties argue that BellSouth should be subject to enforcement mechanisms to which it does not agree, and which would be payable immediately. Although the dispute on this point will certainly be resolved in the future in some context, BellSouth believes that the Commission should

² "The Commission has stated that the fact that a BOC will be subject to performance monitoring and enforcement mechanisms would constitute probative evidence that the BOC will continue to meet its Section 271 obligations and that its entry would be consistent with the public interest." (FCC Order No. 00-238, released June 30, 2000 in CC Docket No. 00-65 ("Texas Order"), Par. 420).

consider carefully the question of whether this issue is best-addressed in a generic context, and whether there is any need to do so at this time.

For these reasons, BellSouth submits that this Commission, even if it finds that it <u>can</u> order a generic enforcement mechanism, should not automatically embark upon a path by which it would consider <u>any</u> parties particular proposal at this time. Instead, it is crucial to take the intermediate step of considering whether setting generic enforcement mechanisms at this time (or at all) is an appropriate course of action.

3. What should be the objective of an enforcement mechanism?

The FCC has made it clear that the primary, if not sole, purpose of a voluntary self effectuating remedy plan is to guard against RBOC "backsliding," i.e., discriminatory performance after the RBOC has received § 271 approval. In its order approving Bell Atlantic's entry into long distance in New York, the FCC analyzed Bell Atlantic's performance plan "solely for the purpose of determining whether the risk of post-approval non-compliance is sufficiently great that approval of its section 271 application would not be in the public interest." (FCC Order 99-404, CC Docket No. 99-205, fn. 1326). As stated above, the FCC reaffirmed this in its decision on SWBT's Texas application.

The FCC has also stated that enforcement mechanisms should not be construed as a replacement for enforcement alternatives that already exist, such as dispute resolution, commission complaints, and enforcement of interconnection agreements. (*See, Bell Atlantic Order, par. 435; SWBT Order, par. 421*). In its August 1996 Local Competition Order, the FCC noted that

several carriers advocated performance penalties. (Local Competition Order, 11

FCC Rcd at 15658, par. 305). The FCC did not adopt such penalties in that

Order. Instead, it acknowledged the wide variety of remedies available to an

ALEC that believes it has received discriminatory performance in violation of the

Act. (Id., par. 129).

Finally, any enforcement mechanism should be structured to achieve its

proper objective in a way that is relatively simple to implement and can be

administered with only minimal regulatory oversight.

4. For purposes of evaluating ILEC performance in the context of an interconnection agreement, how should any Commission established enforcement mechanism be structured conceptually?

- A. Frequency of monitoring?
- B. Time frame to be evaluated?
- C. Level of disaggregation across metrics and offerings?
- D. How should items A, B, and C above be balanced to provide statistical significance for metrics with a small number of observations per reporting period?
- E. Automatic penalties for noncompliance?

Tier 1 of BellSouth's penalty plan is specifically designed to evaluate ILEC

performance in the context of individual ALEC interconnection agreements.

- A. Monitoring and reporting is done on a monthly basis.
- B. Evaluations are done on a monthly basis.
- C. Levels of disaggregation should be sufficient to deter disparate

performance and to allow meaningful comparison. There are two

items to consider when speaking of disaggregation: the reporting

level ("A" above) and the testing level ("B" above). The metrics

should be balanced so as to encompass the entire range of ILEC to

CLEC performance. However, this does not mean that each and every sub-process need be considered. The primary purpose of disaggregated reporting should be to ensure that service parity is evaluated at a point where 'like-to-like' comparisons can be made, so as not to mask discrimination. Examples of these 'like-to-like' comparisons include such things as geography (e.g. region, state, wire center), product groupings (e.g. resale residence, resale business, UNEs), similar activities (e.g. new connects, change orders, moves) and seasonality (e.g. holiday workload).

Finally, evaluations resulting in penalties should be based only on outcome oriented metrics that impact the customer's experience. For example, an end user would be negatively impacted by a missed installation appointment. The customer does not experience all the subprocesses that may have led to that missed installation appointment, such as jeopardy notices, held order interval and firm order confirmation interval. Again, the customer only experiences the missed installation appointment. To pay penalties on each of these subprocesses would duplicate the penalty associated with the missed due date.

The measurement set included in BellSouth's VSEEM III plan are key, outcome oriented measures. BellSouth developed these measures based upon the collaborative work between ILECs, ALECs and State Commissions in New York and Texas.

Collaborative efforts in both New York and Texas resulted in either a "critical" measurement set, or a prioritized set of measures of "high, medium, and low" significance. These commissions charged the ALECs with identifying the measurement set that is most 'customer impacting'. BellSouth's experience in providing access to IXCs, combined with the outcome of prioritized measures from New York and Texas has resulted in BellSouth offering a key set of customer impacting metrics.

- D. BellSouth believes that a suitable statistical methodology will amply address the balancing of frequency, time frames and disaggregation to address small numbers of observations.
- Yes. Penalties should be automatic. BellSouth's proposed penalty plan automatically generates penalty payments for noncompliance based on like-to-like comparisons at the lowest level possible.

5. For purposes of evaluating ILEC (and ALEC) performance in the aggregate, how should any Commission enforcement mechanism be structured conceptually?

- A. Frequency of monitoring?
- B. Time frame to be evaluated?
- C. Level of disaggregation across metrics and offerings?
- D. How should items A, B, and C above be balanced to provide statistical significance for metrics with a small number of observations per reporting period?
- E. Automatic vs. case-by-case fines for noncompliance?

BellSouth's responses to this section are the same as its response to Issue 4

above. Generally speaking, aggregate performance should be integrated with,

and an extension of individual ALEC evaluations.

6. How should the dollar value of penalties be determined?

There are several criteria that should be used to develop appropriate penalty levels for determining the dollar value of penalties. First, the dollar amount should be significant enough to incent the ILEC to provide nondiscriminatory performance. Second, the penalty should not be so large that it is economically advantageous to the ALECs to receive penalties in lieu of marketing their own local service. Third, penalties should address all ALEC modes of entry (i.e., resale, facility based and interconnection) as well as electronic and manual processing. The dollar value assigned to each metric should give more weight to critical measurements, key products and processes.

Finally, it is important to acknowledge that non-monetary remedy mechanisms are equally, if not more, important than monetary remedy payment amounts. A prime example is BellSouth's Tier 3 proposal to voluntarily cease to market interLATA long distance services.

7. Should there be a cap on penalty amounts and if so, how should that cap be determined?

Yes, any voluntary, self-executing remedy plan adopted by the Commission should contain an absolute cap. There should be a limit on how much financial risk an ILEC should have to bear in <u>self-executing</u> penalty payments. In BellSouth's VSEEM III, the cap is based upon a percentage of net revenue from local exchange service on a state by state basis. This by no means guarantees an overall cap on BellSouth's ultimate liability. BellSouth's

enforcement plan also contains non-monetary consequences in the form of an extraordinary Tier-3 penalty that, if triggered, would automatically prohibit BellSouth from marketing interLATA long distance service to new customers. This Tier III remedy will be triggered in the event performance deteriorates to the level that Tier I and Tier 2 remedies are exhausted. It is also important to remember that no matter what the cap, CLECs will retain the right to pursue other legal remedies under state and federal law.

8. How and when should consequences be escalated?

Penalties should escalate when it is more likely from a statistical standpoint that disparate performance has taken place. Also, penalties should correspond to the activity level, in other words, be assessed on a per transaction basis. BellSouth's enforcement plan is designed to accomplish this based on 3 tiers of escalation.

Tier 1 of BellSouth's enforcement plan pays liquidated damages directly to an individual ALEC affected by BellSouth's non-performance on any one or more of 37 key, outcome oriented submetrics included in the plan. Tier 1 penalties are not intended to be the exclusive remedy of the individual ALEC, who retains all rights to pursue further legal remedies. Tier 2 assessments address patterns of poor performance to the ALEC industry and are <u>in addition to</u>, not in lieu of, Tier 1 payments, which will continue to be paid on an escalating basis. These payments cover performance under 42 key, outcome-oriented submetrics and are paid directly to the Commission. Finally, BellSouth's enforcement plan has a Tier III remedy, which is unique to BellSouth, and which provides the ultimate

incentive for continued non-discriminatory performance that has escalated over time: the suspension of marketing of interLATA long distance services to new customers.

9. How should extraordinary events be handled?

It is not appropriate to hold any ILEC responsible for situations that arise that are beyond its control. These situations would include such things as natural disasters (e.g. hurricanes, floods, tornadoes, etc.) and situations created by third parties (e.g. major cable cuts by construction companies). As much as possible, these types of situations should be pre-identified and included as allowable exceptions to the ILEC penalty plan under existing Commission rules. In addition, the Commission should allow for a waiver process, whereby an ILEC could petition the Commission to approve additional exceptions under appropriate circumstances. Respectfully submitted this 25th day of August, 2000.

BELLSOUTH TELECOMMUNICATIONS, INC.

Ko (JE)

NAINCY B. WHITE (*JP*) c/o Nancy H. Sims 150 So. Monroe Street, Suite 400 Tallahassee, FL 32301 (305) 347-5555

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If the payment were simply a penalty, then the penalty would be applied (and paid) through the process that the Commission has always used for the

violation of service rules. In contrast, the payment of money directly from the provider to a customer (wholesale or otherwise) is unprecedented. There is no statutory provision, Commission rules, and/or previous Commission Orders that contemplates a penalty of this sort. The only tenable explanation for this entirely new and unprecedented approach to enforcement is that the money paid represents, in effect, an award of damages. Moreover, the controlling authority supports this view.

As BellSouth stated in its Supplementary Comments (filed April 7, 2000), this Commission has already ruled that it lacks the authority under state law to award damages for the breach of an interconnection agreement. These prior Commission decisions would be the end of this inquiry but for the recent entry of an Order by the United States District Court for the Northern District of Florida (MC) Telecommunications Corporation v. BellSouth Telecommunications, Inc., Case No. 4:97 CV 141-RH, entered June 6, 2000). In that case, the Federal Court considered the claim of MCI that this Commission erred by refusing to consider the question of whether a provision for damages should be included in the interconnection agreement between the parties. The Federal Court prefaced its consideration of this issue by categorizing it as follows: "As part of its Petition for Arbitration before the Florida Commission, MCI sought to include in the interconnection agreement specific performance criteria and a compensation mechanism similar to a liquidated damages provision." (Order, p. 31-32) (emphasis added). Although a variety of euphemisms have been applied to the subject damages (e.g., enforcement mechanisms), the Federal Court was fairly

clear as to what was the subject of this portion of its Order. The Court consistently referred to MCI's request as being for a <u>compensation mechanism</u>. (See, e.g., <u>Id.</u>, pp. 32-34, 35 through 37).¹

From a legal standpoint, it is simply not possible to see the payments contemplated in this proceeding as anything other than damages. Clearly, these payments are a form of, as the Federal Court put it, compensation mechanism. Further, as stated above, there are marked differences in this approach to "penalties" and the historical manner in which this Commission has administered penalties. These facts, taken together, make it clear that the subject enforcement mechanisms can only be viewed as a payment of damages.

<u>Issue I</u>

The first issue, whether the Commission has the authority to set in a generic context enforcement mechanism that is tantamount to damages must be answered in the negative; although, this issue presents a somewhat more difficult question. Again, much of the consideration of enforcement mechanisms in this docket would not be taking place if not for the Federal Court's recent decision. There is nothing in the Court's decision, however, that can be read as an endorsement of including an enforcement mechanisms/liquidated damages provision in interconnection agreements, and there is nothing that even contemplates that a provision of this sort would be developed in the context of a generic docket.

¹ It is also noteworthy that in the presentation that MCI made to this Commission on August 8, 2000, its printed materials consistently referred to its proposed enforcement mechanism as a <u>remedy</u> plan.

Although the Federal Court suggested that this Commission might well have the ability to award liquidated damages under state law (contrary to the Commission's finding), the gravamen of the initial stage of the decision was that it simply does not matter. The Court noted in this regard that "if a compensation provision were truly required by the Telecommunications Act and could be adopted in some form without imposing on the Florida Commission an unconstitutional burden . . . [Citation Omitted] . . ., then any contrary Florida law obviously would not preclude adoption of such a provision." (Order, p. 36). Having opined that Federal law, in effect, pre-empts state law, the Court went on to hold that this Commission must consider literally anything that a party raises in an arbitration. The Court's logic was as follows: 1) parties are free to negotiate anything they wish; 2) to the extent negotiations fail to yield an agreement, parties may raise in arbitration issues that were the subject of negotiations; 3) when a Commission undertakes to arbitrate a dispute between the parties, it is required to arbitrate all "open issues", i.e., whatever the parties raise. This constitutes perhaps the broadest interpretation of the Act that has been made by any Federal Court in the Country. Still, the Court was careful to clarify its ruling as follows:

Nothing in this Order should be read as an indication that the Telecommunications Act imposes on state Commissions an obligation to perform any enforcement role requested by the parties, or that Congress lawfully could impose any such obligation on state commissions. The holding here is simply that, having undertaken to arbitration "any open issues" under the Act, the Florida Commission must arbitrate the open issue of whether or not the parties' arbitrated interconnection agreement should or should not include an enforcement or compensation mechanism of the type requested by MC1."

(ld., p. 36, footnote 16).

Thus, the Federal Court's decision really relates to the scope of the duty of the Commission to arbitrate "open issues." The fact that the particular open issue that prompted the Court's decision involved a liquidated damages-type compensation mechanism was almost coincidental. Viewed in proper context, it is obvious that there is nothing in this decision that supports the view that the Commission should undertake in the context of a generic proceeding to set enforcement remedies that would be utilized in all future interconnection agreements. In fact, given the actual logic of the Federal Court's decision, it would tend to support precisely the opposite conclusion.

Again, the Court found that in an arbitration the Commission must resolve all open issues. Logically, the arbitration of all open issues in a proceeding would seem to require a consideration of the position of the parties on the issues. If the Commission were to set in advance of any given arbitration, a generic set of enforcement mechanisms with the intention of simply placing them into each subsequently negotiated or arbitrated contract, then this would effectively preempt the consideration of any differing set of enforcement mechanisms that a party might raise in an arbitration. In other words, if the Commission uses a predetermined set of enforcement mechanisms in future arbitrations, and declines to consider alternatives, this approach would appear to contradict the ruling of the Federal Court. Thus, paradoxically, the Court's decision, while unquestionably having the effect of broadening the scope of arbitrations, will in all likelihood also

have the effect of narrowing the scope of potentially arbitrable issues that can be dealt with in a generic proceeding.

The only other possibility if the Commission sets generic enforcement mechanisms is that the Commission would, nevertheless, consider alternative enforcement mechanisms when raised in arbitrations in order to resolve the "open issue" of the particular enforcement mechanisms that should be placed in a particular arbitration agreement. If the Commission were to take this approach, however, it would undercut the usefulness of setting generic enforcement mechanisms in advance. Thus, the Federal Court's decision has placed on shaky ground any attempt to deal with enforcement mechanisms on a generic basis before the fact of any given arbitration.

Beyond the narrow question of whether the Commission <u>can</u> set damagelike enforcement mechanisms is the equally important question of whether it should do so. BellSouth believes that it is inappropriate for this Commission, even if concludes that it can set these mechanisms generically, to proceed directly to a process that is designed to do so. Instead, the question of whether these mechanisms are necessary (and the related question of whether it is preferable to set them on a generic basis) is of extreme importance and deserves careful scrutiny.

Again, the Federal Court made it clear that it was not endorsing enforcement mechanisms. Moreover, the decision of the Federal Court is consistent with the decision of other Federal Courts. In other words, when Commissions have declined to set enforcement mechanisms, this decision has

been upheld. To give one example, in an arbitration in Kentucky between MCI and BellSouth, MCI requested performance standards, reporting requirements and penalty provisions. The Kentucky Commission found that there was no need for the requested mechanisms and rejected MCI's request. (Order entered December 20, 1996, Case No. 96-98). Upon review, the Federal District Court for the Eastern District of Kentucky held that declining to set performance measurements or enforcement mechanisms was within the discretion of the Kentucky Commission under the Act. <u>MCI Telecommunications Corp. v.</u> <u>BellSouth Telecommunications</u>, 40 F Supp 2d 416 (E.D. Ky 1999). Specifically, the Court refused to read the Act to require that a Commission impose these mechanisms (Id., p. 428).

Further, the question of whether an enforcement mechanism is necessary should be considered in the context within which this mechanism has been utilized by the FCC. In the Orders approving the only two successful 271 applications to date (Bell Atlantic's New York application and SBC's Texas application), there is nothing to suggest that the FCC considers enforcement mechanisms as necessary to demonstrate checklist compliance under 271. Instead, the FCC stated specifically that it considered enforcement mechanisms only to the extent that these mechanisms serve the public interest by guarding against backsliding after 271 authority is granted. Without holding that enforcement mechanisms were the only way to ensure that there will be no backsliding, the FCC ruled that this is an acceptable means to counter

backsliding, and it considered enforcement mechanisms solely for this purpose.² Given this, BellSouth believes that it would be inappropriate for this Commission to proceed without carefully considering and resolving the issue of whether enforcement mechanisms should be dealt with generically and, if so, when and for what purpose.

Consistent with the FCC's recent Orders, BellSouth has developed a set of performance measurements and enforcement mechanisms, and has included them in negotiated interconnection agreements. In keeping with the prescription of the FCC, these enforcement mechanisms will go into place <u>only</u> after BellSouth has 271 authority. BellSouth believes that its plan will satisfy the FCC's concerns by protecting the public interest post-271. Further, BellSouth will continue to make these available in the context of interconnection agreements whether the Commission goes forward with a generic docket or not.

Given the above, BellSouth believes that this Commission should not consider ordering in a generic context enforcement mechanisms that would go into effect <u>pre-271</u>, even if the Commission finds that it has the legal ability to do so. Of course, other parties argue that BellSouth should be subject to enforcement mechanisms to which it does not agree, and which would be payable immediately. Although the dispute on this point will certainly be resolved in the future in some context, BellSouth believes that the Commission should

² "The Commission has stated that the fact that a BOC will be subject to performance monitoring and enforcement mechanisms would constitute probative evidence that the BOC will continue to meet its Section 271 obligations and that its entry would be consistent with the public interest." (FCC Order No. 00-238, released June 30, 2000 in CC Docket No. 00-65 ("Texas Order"), Par. 420).

consider carefully the question of whether this issue is best-addressed in a generic context, and whether there is any need to do so at this time.

For these reasons, BellSouth submits that this Commission, even if it finds that it <u>can</u> order a generic enforcement mechanism, should not automatically embark upon a path by which it would consider <u>any</u> parties particular proposal at this time. Instead, it is crucial to take the intermediate step of considering whether setting generic enforcement mechanisms at this time (or at all) is an appropriate course of action.

3. What should be the objective of an enforcement mechanism?

The FCC has made it clear that the primary, if not sole, purpose of a voluntary self effectuating remedy plan is to guard against RBOC "backsliding," *i.e.*, discriminatory performance after the RBOC has received § 271 approval. In its order approving Bell Atlantic's entry into long distance in New York, the FCC analyzed Bell Atlantic's performance plan "solely for the purpose of determining whether the risk of post-approval non-compliance is sufficiently great that approval of its section 271 application would not be in the public interest." (FCC Order 99-404, CC Docket No. 99-205, fn. 1326). As stated above, the FCC reaffirmed this in its decision on SWBT's Texas application.

The FCC has also stated that enforcement mechanisms should not be construed as a replacement for enforcement alternatives that already exist, such as dispute resolution, commission complaints, and enforcement of interconnection agreements. (See, Bell Atlantic Order, par. 435; SWBT Order, par. 421). In its August 1996 Local Competition Order, the FCC noted that

several carriers advocated performance penalties. (Local Competition Order, 11

FCC Rcd at 15658, par. 305). The FCC did not adopt such penalties in that

Order. Instead, it acknowledged the wide variety of remedies available to an

ALEC that believes it has received discriminatory performance in violation of the

Act. (Id., par. 129).

Finally, any enforcement mechanism should be structured to achieve its

proper objective in a way that is relatively simple to implement and can be

administered with only minimal regulatory oversight.

4. For purposes of evaluating ILEC performance in the context of an interconnection agreement, how should any Commission established enforcement mechanism be structured conceptually?

- A. Frequency of monitoring?
- B. Time frame to be evaluated?
- C. Level of disaggregation across metrics and offerings?
- D. How should items A, B, and C above be balanced to provide statistical significance for metrics with a small number of observations per reporting period?
- E. Automatic penalties for noncompliance?

Tier 1 of BellSouth's penalty plan is specifically designed to evaluate ILEC

performance in the context of individual ALEC interconnection agreements.

- A. Monitoring and reporting is done on a monthly basis.
- B. Evaluations are done on a monthly basis.
- C. Levels of disaggregation should be sufficient to deter disparate performance and to allow meaningful comparison. There are two items to consider when speaking of disaggregation: the reporting level ("A" above) and the testing level ("B" above). The metrics should be balanced so as to encompass the entire range of ILEC to

CLEC performance. However, this does not mean that each and every sub-process need be considered. The primary purpose of disaggregated reporting should be to ensure that service parity is evaluated at a point where 'like-to-like' comparisons can be made, so as not to mask discrimination. Examples of these 'like-to-like' comparisons include such things as geography (e.g. region, state, wire center), product groupings (e.g. resale residence, resale business, UNEs), similar activities (e.g. new connects, change orders, moves) and seasonality (e.g. holiday workload).

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Finally, evaluations resulting in penalties should be based only on outcome oriented metrics that impact the customer's experience. For example, an end user would be negatively impacted by a missed installation appointment. The customer does not experience all the subprocesses that may have led to that missed installation appointment, such as jeopardy notices, held order interval and firm order confirmation interval. Again, the customer only experiences the missed installation appointment. To pay penalties on each of these subprocesses would duplicate the penalty associated with the missed due date.

The measurement set included in BellSouth's VSEEM III plan are key, outcome oriented measures. BellSouth developed these measures based upon the collaborative work between ILECs, ALECs and State Commissions in New York and Texas.

Collaborative efforts in both New York and Texas resulted in either a "critical" measurement set, or a prioritized set of measures of "high, medium, and low" significance. These commissions charged the ALECs with identifying the measurement set that is most 'customer impacting'. BellSouth's experience in providing access to IXCs, combined with the outcome of prioritized measures from New York and Texas has resulted in BellSouth offering a key set of customer impacting metrics.

- D. BellSouth believes that a suitable statistical methodology will amply address the balancing of frequency, time frames and disaggregation to address small numbers of observations.
- Yes. Penalties should be automatic. BellSouth's proposed penalty plan automatically generates penalty payments for noncompliance based on like-to-like comparisons at the lowest level possible.

5. For purposes of evaluating ILEC (and ALEC) performance in the aggregate, how should any Commission enforcement mechanism be structured conceptually?

- A. Frequency of monitoring?
- B. Time frame to be evaluated?
- C. Level of disaggregation across metrics and offerings?
- D. How should items A, B, and C above be balanced to provide statistical significance for metrics with a small number of observations per reporting period?
- E. Automatic vs. case-by-case fines for noncompliance?

BellSouth's responses to this section are the same as its response to Issue 4

above. Generally speaking, aggregate performance should be integrated with,

and an extension of individual ALEC evaluations.
6. How should the dollar value of penalties be determined?

There are several criteria that should be used to develop appropriate penalty levels for determining the dollar value of penalties. First, the dollar amount should be significant enough to incent the ILEC to provide nondiscriminatory performance. Second, the penalty should not be so large that it is economically advantageous to the ALECs to receive penalties in lieu of marketing their own local service. Third, penalties should address all ALEC modes of entry (i.e., resale, facility based and interconnection) as well as electronic and manual processing. The dollar value assigned to each metric should give more weight to critical measurements, key products and processes.

Finally, it is important to acknowledge that non-monetary remedy mechanisms are equally, if not more, important than monetary remedy payment amounts. A prime example is BellSouth's Tier 3 proposal to voluntarily cease to market interLATA long distance services.

7. Should there be a cap on penalty amounts and if so, how should that cap be determined?

Yes, any voluntary, self-executing remedy plan adopted by the Commission should contain an absolute cap. There should be a limit on how much financial risk an ILEC should have to bear in <u>self-executing</u> penalty payments. In BellSouth's VSEEM III, the cap is based upon a percentage of net revenue from local exchange service on a state by state basis. This by no means guarantees an overall cap on BellSouth's ultimate liability. BellSouth's

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enforcement plan also contains non-monetary consequences in the form of an extraordinary Tier-3 penalty that, if triggered, would automatically prohibit BellSouth from marketing interLATA long distance service to new customers. This Tier III remedy will be triggered in the event performance deteriorates to the level that Tier I and Tier 2 remedies are exhausted. It is also important to remember that no matter what the cap, CLECs will retain the right to pursue other legal remedies under state and federal law.

8. How and when should consequences be escalated?

Penalties should escalate when it is more likely from a statistical standpoint that disparate performance has taken place. Also, penalties should correspond to the activity level, in other words, be assessed on a per transaction basis. BellSouth's enforcement plan is designed to accomplish this based on 3 tiers of escalation.

Tier 1 of BellSouth's enforcement plan pays liquidated damages directly to an individual ALEC affected by BellSouth's non-performance on any one or more of 37 key, outcome oriented submetrics included in the plan. Tier 1 penalties are not intended to be the exclusive remedy of the individual ALEC, who retains all rights to pursue further legal remedies. Tier 2 assessments address patterns of poor performance to the ALEC industry and are <u>in addition to</u>, not in lieu of, Tier 1 payments, which will continue to be paid on an escalating basis. These payments cover performance under 42 key, outcome-oriented submetrics and are paid directly to the Commission. Finally, BellSouth's enforcement plan has a Tier III remedy, which is unique to BellSouth, and which provides the ultimate

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incentive for continued non-discriminatory performance that has escalated over time: the suspension of marketing of interLATA long distance services to new customers.

9. How should extraordinary events be handled?

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It is not appropriate to hold any ILEC responsible for situations that arise that are beyond its control. These situations would include such things as natural disasters (e.g. hurricanes, floods, tornadoes, etc.) and situations created by third parties (e.g. major cable cuts by construction companies). As much as possible, these types of situations should be pre-identified and included as allowable exceptions to the ILEC penalty plan under existing Commission rules. In addition, the Commission should allow for a waiver process, whereby an ILEC could petition the Commission to approve additional exceptions under appropriate circumstances. Respectfully submitted this 25th day of August, 2000.

BELLSOUTH TELECOMMUNICATIONS, INC.

To

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Appendix A: Reporting Scope*

Standard Service Groupings	Pre-Order, Ordering
	> Residence Resale
	Business Resale
	> Special
	> Local Interconnection Trunks
	> UNE
	VINE JOSE W/INP
	Provisioning
	Resale and Retail
	Pots – Residence
	> Pots – Business
	Design DDV (Lewising SOL)
	PBX (Louisiana SQM) CENTREY (Louisiana SQM)
	 ISDN (Louisiana SQM) (Note: ISDN included in POTS for Georgia Only)
	Unbundled Network Elements
	UNE Design
	> UNE Non-Design
	UNE 2 Wire Loop (Louisiana SQM) UNE Loop (they (Louisiana SQM))
	 Une Loop Outer (Louisiana SQM) Unbundled Ports (Louisiana SQM)
	 Combos, Switching, Local Transport, DSL (under development)
	Maintenance and Repair
	Resale / Retail
	Pots – Residence Pots – Residence
	 Pols – Dusiness Design
	 PBX (Louisiana SOM)
	 CENTREX (Louisiana SQM)
	> ISDN (Louisiana SQM) (Note: ISDN Trouble included in Non-Design
	for Georgia Only)
	Unbundled Network Flements
	 UNE Design (Georgia and Regional SOM)
	 UNE Non-Design (Georgia and Regional SQM)
	 UNE 2 Wire Loop (Louisiana SQM)
	UNE Loop Other (Louisiana SQM)
	Unbundled Ports (Louisiana SQM)
	 UNE Other Non-Design Combos Switching Local Transport DSL (under development)
	 Comoos, Switching, Local Mansport, DSL (under development)

Appendix A: Reporting Scope*

Standard Service Groupings	Maintenance and Repair/Provisioning
	Trunks
	Georgraphic Scope
	 State, Region and further geographic disaggregation as required by State Commission Order (e.g., Metropolitan Service Area – MSA)
	Local Interconnection Trunk Group Blockage
	 > BST CTTG Trunk Groups > CLEC Trunk Groups
Standard Service Order Activities These are the generic BST/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	 New Service Installations Service Migrations Without Changes Service Migrations With Changes Move and Change Activities Service Disconnects (Unless noted otherwise)
Pre-Ordering Query Types:	 > Address > Telephone Number > Appointment Scheduling > Customer Service Record > Feature Availability
Maintenance Query Types:	 TAFI - *Note TAFI Access the system list below: CRIS DLR LMOSupd March Predictor Oleth LMOS LNP NIW OSPCM SOCS
Report Levels	 CLEC RESH CLEC MSA CLEC State CLEC Region Aggregate CLEC State Aggregate CLEC Region BST MSA BST State BST Region

* Scope is report, data source and system dependent, and, therefore, will differ with each report.

BELLSOUTH*

EXHIBIT A

Service Quality Measurement Plan (SQM)

Measurement Descriptions

Version

July, 2000

I. 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 ILECs to provide non-discriminatory access to Competitive Local Exchange Carriers (CLEC) 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. The SQM must reflect the Orders by the GPSC, LPSC and other PSCs as the orders are issued.

However, in addition, 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, to correct errors, to respond to 3rd Party audit requirements, and PSC and/or customer requests.

This document is intended for use by someone with a basic knowledge of telecommunications industry, information technologies and a functional knowledge of the subject areas covered by the BellSouth Performance Measurement reports.

TABLE OF CONTENTS

MEASUREMENT DESCRIPTION*

CATEGORY	MEASUREMENT DESCRIPTION *		
(OSS) Operations Support Systems	OSS-1. Average Response Time and Response Interval	OSS-Pg. 1	
	(Pre-Ordering/Ordering)	OSS-Pg.3	
	OSS-2. Interface Availability (Pre-Ordering)	OSS-Pg. 5	
	OSS-3. Interface Availability (Maintenance & Repair)	OSS-Pg. 7	
	OSS-4. Response Interval (Maintenance & Repair)		
(O) Ordering	O-1. Percent Flow-through Service Requests (Summary)	O-Pg. 1	
	O-2. Percent Flow-through Service Requests (Detail)	O-Pg. 3	
	O-3. Flow-through Error Analysis	O-Pg. 5	
	O-4. CLEC LSR Information	O-Pg. 6	
	LSR Flow-Through Matrix	O-Pg. 7	
	O-5. Percent Rejected Service Requests	O-Pg. 10	
	O-6. Reject Interval	O-Pg. 12	
	O-7. Firm Order Confirmation Timeliness	O-Pg. 14	
	O-8. Speed of Answer in Ordering Center	O-Pg. 16	
	O-9. LNP-Percent Rejected Service Request	O-Pg.17	
	O-10. LNP-Reject Interval Distribution & Average Reject Internal	O-Pg. 18	
	O-11. LNP-Firm Order Confirmation Timeliness Interval Distribution &	Ŭ	
	Firm Order confirmation Average Interval	O-Pg. 20	
(P) Provisioning	Provisioning Level of Disaggregation	P-Pg. 1	
	P-1. Mean Held Order Interval & Distribution Intervals	P-Pg. 2	
	P-2. Average Jeopardy Notice Interval & Percentage of Orders Given	U	
	Jeopardy Notices	P-Pg. 4	
	P-3. Percent Missed Installation Appointments	P-Pg. 5	
	P-4. Average Completion Interval (OCI) & Order Completion	÷	
	Interval Distribution	P-Pg. 6	
	P-5. Average Completion Notice Interval	P-Pg. 8	
	P-6. Coordinated Customer Conversions	P-Pg. 9	
	P-6A. Coordinated Customer Conversions Hot Cut Timeliness % within		
	Interval and Average Interval	P-Pg. 10	
	P-6B. Coordinated Customer Conversions - % Provisioning Troubles	-	
	Received Within 7 days of a completed Service Order	P-Pg. 11	
	P-7. % Provisioning Troubles w/i 30 days of Service Order Activity	P-Pg. 12	
	P-8. Total Service Order Cycle Time (TSOCT)	P-Pg. 13	
	P-9. Service Order Accuracy (GEORGIA ONLY)	P-Pg. 14	
	P-10. LNPPercent Missed Installation Appointments	P-Pg. 15	
	P-11. LNP-Average Disconnect Timeliness Interval & Disconnect Timeliness		
	Interval Distribution	P-Pg. 16	
	P-12. LNP-Total Service Order Cycle Time	P-Pg. 17	
(M&R) Maintenance & Repair	M&R Level of Disaggregation	M&R-Pg. 1	
	M&R-1. Missed Repair Appointments	M&R-Pg 2.	
	M&R-2. Customer Trouble Report Rate	M&R-Pg. 3	
	M&R-3. Maintenance Average Duration	M&R-Pg. 4	
	M&R-4. Percent Repeat Troubles w/i 30 days)	M&R-Pg. 5	
	M&R-5. Out of Service > 24 Hours	M&R-Pg. 6	
	M&R-6. Average Answer Time - Repair Centers	M&R-Pg. 7	
(B) Billing	B-1. Invoice Accuracy	B-Pg. 1	
	B-2. Mean Time to Deliver Invoices	B-Pg. 2	
	B-3. Usage Data Delivery Accuracy	B-Pg. 3	
	B-4. Usage Data Delivery Completeness	B-Pg. 4	
	B-5. Usage Data Delivery Timeliness	B-Pg. 5	
	B-6. Mean Time to Deliver Usage	B-Pg. 6	

TABLE OF CONTENTS - (continued)

CATEGORY	MEASUREMENT DESCRIPTION *	
(OS) (DA) Operator Services	OS-1. Speed to Answer Performance/Average Speed to Answer (Toll)	OS-Pg 1
Toll & Directory Assistance	OS-2. Speed to Answer Performance/Percent Answered within "X"	05-1 g. 1
	Seconds (Toll)	OS-Pg. 2
	DA-1. Speed to Answer Performance/Average Speed to Answer (DA)	DA-Pg 3
	DA-2. Speed to Answer Performance/Percent Answered within "X"	
	Seconds (DA)	DA-Pg. 4
(E) E911	E-1. Timeliness	E-Pg. 1
	E-2. Accuracy	E-Pg. 2
	E-3. Mean Interval	E-Pg. 3
(TGP) Trunk Group	TGP-1. Trunk Group Performance-Aggregate	TGP-Pg. 1
Performance	TGP-2. Trunk Group Performance-CLEC Specific	TGP-Pg. 3
	TGP-3. Trunk Group Service Report	TGP-Pg. 5
	TGP-4. Trunk Group Service Detail	TGP. Pg 6
(C) Collocation	C-1. Average Response Time	C-Pg. 1
	C-2. Average Arrangement Time	C-Pg. 2
	C-3. % of Due Dates Missed	C-Pg. 3
(CM) Change Management	CM-1 Change Management Notices Sent on Time	CM-Pg. 1
	CM-2 % Change Management Notices – Delay 8 Plus Days	CM-Pg. 2
Appendix A	Reporting Scope	
Appendix B	Glossary of Acronyms and Terms	
Appendix C	Audit Policy	
Appendix D	BST SQM Retail Analog & Benchmarks	

* These reports are subject to change due to regulatory requirements or to correct errors and etc.

OSS (Operations Support Systems)

Report/Measurement:
OSS-1. Average Kesponse Time and Kesponse Interval (Pre-Ordering/Ordering)
Definition:
intervale for accessing legacy data associated with appointment scheduling service & feature availability address
verification request for Telephone numbers (TNs) and Customer Service Records (CSRs)
Reducione:
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 for BST) 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 and the number, which take more than 6 seconds are also captured.
Level of Disaggregation:
• <u>RSAG – Address</u> (Regional Street Address Guide-Address) – stores street address information used to validate
customer addresses. CLECs and BST query this legacy system.
• <u>RSAG - TN</u> (Regional Street Address Guide-Telephone number) – contains information about facilities available
and telephone numbers working at a give address. CLECs and BST query this legacy system.
• <u>ATLAS</u> (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 BST service reps to
select and reserve telephone numbers. CLECs and BST query this legacy system.
• <u>COFFI</u> (Central Office Feature File Interface) – stores information about product and service offerings and
availability. CLECs query this legacy system.
• <u>DSAP</u> (DOE Support Application) – provides due date information. CLECs and BST query this legacy system.
• <u>HAL/CRIS</u> (Hands-Off Assignment Logic/Customer Record Information System) – a system used to access the
Business Office Customer Record Information System (BOCRIS). It allows BST servers, including LENS, access
to legacy systems. CLECs query this legacy system.
• <u>P/SIMS</u> (Product/Services Inventory Management system) – provides information on capacity, tariffs, inventory
and service availability. CLECs query this legacy system.
• <u>OASIS</u> (Obtain Available Services Information Systems) – Information on feature and rate availability. BST
queries this legacy system.
2 [Date & Time of Legacy Response] – (Date & Time of Request to Legacy)] / (Number of Legacy Requests During the
Discont Structure
Not CLEC Specific
Not product/service specific
Regional Level
Data Retained Relating to CLEC Experience:
Report month
Legacy Contract (per reporting dimension) Legacy Contract (per reporting dimension)
Response Interval Response Interval
Regional Scope Regional Scope
Retail Analog/Benchmark:
See Appendix D

Revision Date: 05/05/00 (lg)

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-DDI	Schedule	x	х	x	x	x
CRIS	CRSACCTS	CSR	x	x	x	х	x
OASIS	OASISBSN	Feature/Service	x	x	x	x	x
OASIS	OASISCAR	Feature/Service	x	X	x	х	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	х	x

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
DSAP	DSAP-DDI	Schedule	x	X	x	x	x
CRIS	CRSOCSR	CSR	x	x	x	x	x
OASIS	OASISBIG	Feature/Service	x	X	x	x	x

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	Х	x	x	x
RSAG	RSAG-ADDR	Address	x	X	x	x	x
ATLAS	ATLAS-TN	TN	x	x	x	x	x
DSAP	DSAP-DDI	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	х	x	x	x

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	х	x
ATLAS	ATLAS-TN	TN	x	X	x	x	x
ATLAS	ATLAS-MLH	TN	x	х	x	x	x
ATLAS	ATLAS-DID	TN	x	X	x	x	x
DSAP	DSAP-DDI	Schedule	x	x	x	x	x
HAL	HAL/CRIS	CSR	x	X	x	x	x
CRIS	CRSEINIT	CSR	x	X	x	x	X
CRIS	CRSECSR	CSR	x	x	x	x	x

OSS (Operations Support Systems)

_...

Report/Measurement:	Report/Measurement:					
OSS-2. Interface Availability (Pre-Ordering)						
Definition:						
Percent of time OSS interface is functionally available compared to scheduled availability. Availability percentages for CLEC interface systems and for all Legacy systems accessed by them are captured. ("Functional Availability" is the amount of time in hours during the reporting period that the legacy systems are available to users. The planned System Scheduled Availability is the time in hours per day that the legacy system is scheduled to be available.) Scheduled availability is posted on the ICS Operations intermet site:						
	(www.interconnection.bellsouth.com/oss/osshour.html)					
Exclusions:						
None Puginage Dulan						
Business Rules:						
This measurement captures the availability percentages for the BST systems, which are used by CLECs during Pre- Ordering functions. Comparison to BST results allows conclusions as to whether an equal opportunity exists for the CLEC to deliver a comparable customer experience. Note: Only full outages are used in the calculation of Application Availability. A full outage is incurred when any of the following circumstances exist: • The application or system is down.						
 system. More than one work center cannot access the applicatio When only one work center accesses an application or s 	n or system for any reason. System and 40% or more of the clients in that work center cannot					
 When 40% of the functions the clients normally perform application or system is unavailable. 	n or 40% of the functionality that is normally provided by an					
Level of Disaggregation:						
Regional Level						
Calculation:	· · · · · · · · · · · · · · · · · · ·					
(Functional Availability) / (Scheduled Availability) X 100						
Report Structure:						
Not CLEC Specific						
Not product/service specific						
Regional Level						
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:					
Report month	Report month					
• Legacy Contract Type (per reporting dimension)	Legacy Contract Type (per reporting dimension)					
Regional Scope	Regional Scope					
Hours of Downtime						

OSS (Operations Support Systems) - (OSS-2. Interface Availability (Pre-Ordering) - Continued)

Retail Analog/Benchmark:

Benchmark - 99.5%

OSS Interface Availability

OSS Interface	Applicable to	<u>% Availability</u>
EDI	CLEC	x
HAL	CLEC	x
LENS	CLEC	x
LEO Mainframe	CLEC	x
LEO UNIX	CLEC	x
LESOG	CLEC	x
PSIMS	CLEC	x
TAG	CLEC	x
ATLAS/COFFI	CLEC/BST	x
BOCRIS	CLEC/BST	x
DSAP	CLEC/BST	x
RSAG	CLEC/BST	x
SOCS	CLEC/BST	X
SONGS	CLEC/BST	x

Revision Date: 07/13/00 (lg)

OSS (Operations Support Systems)

Report/Measurement:								
OSS-3. Interface Availability (Maintenance & Repair)								
Definition:								
The percentage of time the OSS Interface is functionally available compared to scheduled availability. Availability								
percentage for the CLEC and BST interface systems and	percentage for the CLEC and BST interface systems and for the legacy systems accessed by them are captured.							
PACUSIONS.								
Provincer Protect	i an							
This measure is designed to compare the OSS availability	v versus scheduled availability of BST's legacy systems							
Note: Only full outages are used in the calculation of Am	plication Availability							
A full outage is incurred when any of the following circu	instances exist.							
• The application or system is down.								
 The application or system is inaccessible, for any reaso system. 	on, by the customers who normally access the application or							
• More than one work center cannot access the application	on or system for any reason.							
• When only one work center accesses an application or	system and 40% or more of the clients in that work center							
cannot access the application.								
• When 40% of the functions the clients normally perfor	m or 40% of the functionality that is normally provided by an							
application or system is unavailable.								
Calculation								
OSS Interface Availability = (Actual System Functional A	Availability) / (Actual planned System Availability) X 100							
Report Structure:								
• Aggregate								
> BSI & CLEC								
Level of Disaggregation.								
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:							
• Availability of CLEC TAFI	Availability of BST TAFI							
Availability of LMOS HOST, MARCH, SOCS.	Availability of LMOS HOST, MARCH, SOCS, CRIS.							
CRIS, PREDICTOR, LNP and OSPCM	PREDICTOR, LNP and OSPCM							
• ECTÁ	, , , , , , , , , , , , , , , , , , ,							
Retail Analog/Benchmark:								
Parity by design; Retail Analog	er van kannen en en an ander verdikken kennen igen an men konstant se server genegen in daar (Ewellenden Hinder Heren							
ECTA Benchmark – 99.5%								
See Appendix D								

OSS Interface Availability (M&R)

OSS Interface	% Availability
BST TAFI	x
CLEC TAFI	x
CLEC ECTA	x
BST and CLEC	x
CRIS	x
LMOS HOST	x
LNP	x
MARCH	x
OSPCM	x
PREDICTOR	x
SOCS	x

Revision Date: 07/17/00 (see)

OSS - 6 July, 2000

OSS (Operations Support Systems)

Report/Measure	ement:											
OSS-4. Res	USS-4. Kesponse Interval (Maintenance & Repair)											
Definition: The response intervals are determined by subtracting the time a request is received on the BST 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 i	s designed to mon	itor the time req	uired for the CLEC a	nd BST interface	system to obta	in from BST's						
legacy systems	the information re	equired to handl	e maintenance and re	pair functions. T	he clock starts	on the date and						
time when the	request is received	on the BST sid	e of the interface and	the clock stops v	when the respon	nse has been						
transmitted three	ough that same po	int to the reques	ter.									
NOTE: The C	SS Response Inter	rval BST Total I	Report is a combination	on of BST Reside	ence and Busin	ess Total.						
Calculation:	and the second second					A Mara Hannakan Ka						
OSS Response	Interval = (Query	Response Date	and Time for Categor	ry "X") – (Query	Request Date a	and Time for						
Category "X") X 100	/ (Number of Que	ries Submitted i	n the Reporting Perio	d) where, "X" is	$0-4, \ge 4 \text{ to } 10,$	$\geq 10, \geq 30$ seconds						
Report Structur	e:		at the second second	re <i>inde</i> r general								
CLEC												
BST Resid	dence											
BST Busin	ness by interface for	or each legacy s	ystem and function as	s appropriate.								
BST total	(Business + Resid	ence)										
Level of Disaggr	regation:											
Region				ninger von selveren over								
Data Retained H	telating to CLEC	Experience:	Data Retail	ned Kelating to	HSI Reflorms	ince:						
CLEC Tra	insaction Intervals		• <u>BS1</u>	Business and Re	sidence transa	ction intervals						
Ketali Analog/B	Interval for CLEC	Vaic comparabl	a to OSS Perponse In	iterval for BST		HUNDER STORE						
OSS Response	Interval for CLEC		e to OBS Response m									
System	BST & CLEC	Count <= 4	Count > 4, $< = 10$	Count < = 10	Count > 10	Count > 30						
CRIS	x	x	x	X	X	X						
DLETH	X	x	X	x	X	x						
DLR	X	X	<u> </u>	x	X	X						
LMOS	X	x	X	X	X	X						
LMOSupd	X	X	X	X	<u>x</u>	<u>X</u>						
LNP	X	X	<u> </u>		<u> </u>	X						
MARCH	<u>X</u>	X	X	X	X	X						
OSPCM	<u>X</u>	<u> </u>	<u> </u>		X V							
Fredictor	X			x	<u>x</u>							
NIW		×		x	x x							
INT AA	<u>^</u>	^		L								

Revision Date 07/17/00 (see)

ORDERING

Report/Measurement:								
U-1. Percent Flow-Through Service Requests (Sur	nmary)							
The percentage of Local Service Requests (LSR) and LNP via the CLEC mechanized ordering process that flow throug intervention.	Local Service Requests (LNP LSRs) submitted electronically gh and reach a status for a FOC to be issued, without manual							
Exclusions:								
Fatal Rejects								
Auto Clarification								
• Manual Fallout								
CLEC System Fallout								
The CLEC mechanized ordering process includes all LSRs, submitted through one of the three gateway interfaces (TAC FOC to be issued, without manual intervention. These LSR Residence, and two types of service; Resale, and Unbundled ordering process does not include LSRs, which are, submitte flow through, i.e., Manual Fallout.	including supplements (subsequent versions) which are 3, EDI, and LENS), that flow through and reach a status for a s can be divided into two classes of service; Business and 1 Network Elements (UNE). The CLEC mechanized ed manually (e.g., fax, and courier), or are not designed to							
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: errors that occur due to invalid data w checks to ensure the data within the LSR is correct and valid according to RSAG, or if the LNP is not available for the Ni Clarification.	<u>Auto-Clarification</u> : errors 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.							
<u>Manual Fallout</u> : Planned Fallout that occur by design. Ce Process due to their complexity. These LSRs are manually LESOG/LAUTO will determine if the LSR should be forwa categories for Manual Fallout:	rtain LSRs are designed to fallout of the Mechanized Order processed by the LCSC. When a CLEC submits an LSR, rded to LCSC for manual handling. Following are the							
1. Complex*	8. Low volume such as activity type "T" (move)							
2. Expedites (requested by the CLEC)	9. Pending order review required							
3. Special pricing plans	10. More than 25 business lines							
4. Denials-restore and conversion, or disconnect and	11. Restore or suspend for UNE combos							
Conversion orders	12 Transfer of calls option for the CLEC's end users							
 Class of service invalid in certain states with some types of service Class of service invalid in certain states with some types of service Class of service invalid in certain states with some types of data in CRIS 								
7. New telephone number not yet posted to BOCKIS								
*Attached is a list of services, including complex services, and through.	l whether LSRs issued for the services are eligible to flow							
Total System Fallout: Errors that require manual review by to is due to system functionality. If it is determined the error is c	the LSCS to determine if the error is caused by the CLEC, or aused by the CLEC, the LSR will be sent back to the CLEC							

for clarification. If it is determined the error is BST caused, the LCSC representative will correct the error, and the LSR will continue to be processed.

ORDERING (O-1. Percent Flow-Through Service Requests (Summary) - Continued)

Calculation: Percent Flow Through – (The total number of LSRs that flow be issued) / (the number of LSRs passed from LEO/LNP Gate out for manual processing) + (the number of LSRs that are real LSRs that contain errors made by CLECs)] X 100.	through LESOG/LAUTO and reach a status for a FOC to eway to LESOG/LAUTO) - Σ [(the number of LSRs that fall turned to the CLEC for clarification) + (the number of
Report Structure:	
CLEC Aggregate	the second se
Kegion	
Level of Lisaggregation:	
• Geography	
Region Product	
> Residence	
> Business	
> UNE	
> LNP	
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:
Report month	Report month
• Total number of LSRs received, by interface, by CLEC	Total number of errors by type
> TAG	ST system error
> EDI	
 LEND Total number of arrows by type, by CLEC 	
 Total number of errors by type, by CLEC Fatal rejects 	
 Auto clarification 	
 CLEC caused system fallout 	
Total number of errors by error code	
 Total fallout for manual processing 	
Retail Analog/Benchmark:	
Residence 90%	
Business 80%	

Revision Date: 05/15/00 (tm)

ORDERING

will continue to be processed.

Report/Measurement:								
O-2. Percent Flow-Through Service Requests (Deta	il)							
Definition:								
A detailed list by CLEC of the percentage of Local Service R LSRs) submitted electronically via the CLEC mechanized or FOC to be issued, without manual or human intervention.	Requests (LSR) and LNP Local Service Requests (LNP dering process that flow through and reach a status for a							
Exclusions:								
• Fatal Rejects								
Auto Clarification								
Manual Fallout								
CLEC System Fallout								
Business Rules:								
submitted through one of the three gateway interfaces (TAG, FOC to be issued, without manual intervention. These LSRs Residence, and three types of service; Resale, and Unbundled mechanized ordering process does not include LSRs, which a designed to flow through, i.e., Manual Fallout.	EDI, and LENS), that flow through and reach a status for a can be divided into two classes of service; Business and Network Elements (UNE) and specials. The CLEC are, submitted manually (e.g., fax, and courier), or are not							
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.								
<u>Auto-Clarification</u> : errors that occur due to invalid data with checks to ensure the data within the LSR is correct and valid. according to RSAG, or if the LNP is not available for the NP. Clarification.	<u>Auto-Clarification</u> : errors 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.							
<u>Manual Fallout</u> : Planned Fallout that occur by design. Cert Process due to their complexity. These LSRs are manually pr LESOG/LAUTO will determine if the LSR should be forward categories for Manual Fallout:	ain LSRs are designed to fallout of the Mechanized Order rocessed by the LCSC. When a CLEC submits an LSR, ded to LCSC for manual handling. Following are the							
1 Complex services*	8 Low volume such as activity type "T" (move)							
2. Expedites (requested by the CLEC)	9. Pending order review required							
3. Special pricing plans	10. More than 25 business lines							
4. Denials-restore and conversion, or disconnect and	11. Restore or suspend for UNE combos							
conversion orders								
5. Partial migrations	12. Transfer of calls option for the CLEC's end users							
6. Class of service invalid in certain states with some types of	13. CSR inaccuracies such as invalid or missing CSR							
service	data in CRIS							
7. New telephone number not yet posted to BOCKIS								
*Attached is a list of services, including complex services, and through.	whether LSRs issued for the services are eligible to flow							
Total System Fallout: Errors that require manual review by th is due to system functionality. If it is determined the error is can for clarification. If it is determined the error is BST caused, the	e LSCS to determine if the error is caused by the CLEC, or used by the CLEC, the LSR will be sent back to the CLEC LCSC representative will correct the error, and the LSR							

ORDERING (O-2. Percent Flow-Through Service Requests (Detail) - Continued)

Calculation	
Percent Flow Through – (The total number of LSRs that flow	through LESOG/LAUTO and reach a status for a FOC to
be issued) / (the number of LSRs passed from LEO/LNP Gate	way to LESOG/LAUTO) - Σ [(the number of LSRs that fall
out for manual processing + the number of LSRs that are returned	med to the CLEC for clarification + the number of LSRs
that contain errors made by CLECs)] X 100.	
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 fo	llowing:
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 BST caused fallout	
Number of CLEC caused failout	
Number of Service Orders Issued	
Base calculation	
CLEC error excluded calculation	
Level of Disaggregation:	
• CLEC Specific (by alias designation to protect CLEC spe	cific proprietary data)
• Geographic	
➢ Region	i
Product	
> Residence	
> Business	
► UNE	
> LNP	
Data Retained Relating to ULEC Experience:	Data Relating to DS Feerior mances
Report month	• Report month
• Total number of LSRs received, by interface, by CLEC	I otal number of errors by type DET sustant array
> TAG	> DS1 system error
> EDI	
> LENS	
• I otal number of errors by type, by CLEC	
Fatal rejects	
Auto clarification	
CLEU CITOIS Total number of amore by amor and a	
I otal number of errors by error code Tatal fallout for manual processing	
• I otal failout for manual processing	
Reizh Anzing/Denchmarks	
Residence 90%	
	Revision Date: 05/15/00 (tm)

ORDERING

Report/Measurement:	
O-3. Flow-Through Error Analysis	
Definition:	
An analysis of each error type (by error code) that was experi	enced by the LSRs that did not flow through and reach a
status for a FOC to be issued.	
Exclusions:	
Each Error Analysis is error code specific, therefore exclusion	ns are not applicable.
Business Rules:	
The CLEC mechanized ordering process includes all LSRs, in	cluding 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 d	oes not include LSRs, which are, submitted manually (e.g.,
fax, and courier).	
Calculation:	andina a second seco In the second
Σ Of errors by 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	
BST Caused Count of each error code	
> Percent of aggregate by BST caused count	
Percent of BS1 by BS1 caused count.	
Level of Disaggregation:	
Kegion	a na an unit na parte carrier a na parte este a seconda y su character and secondarias and the same
Data Relatined Relating to CLEC Experience:	Data Relatied Relating to BSI Performance: Auto
• Report month	• Report month
• Total number of LSRs received	• I otal number of errors by type (by error code)
• Total number of errors by type (by error code)	BST system error
CLEC caused error	
Retail Analog/Benchmark:	
Not Applicable	

Revision Date: 02/22/00 (tm)

ORDERING

Report/Mensurement:	
O-4. CLEC LSR Information	
Definition:	and the second secon
A list, with the flow through activity, of LSRs, by cc, po	on and ver, issued by each CLEC during the report period.
Exclusions:	
Fatal Rejects	
Business Rules:	n andre so aller e Berry (1999). En service de la construction de la construction de la construction de la cons Aller al <mark>aller de la construction de</mark>
The CLEC mechanized ordering process includes all LS	Rs, including supplements (subsequent versions) which are
submitted through one of the three gateway interfaces (T	AG, EDI, and LENS), that flow through and reach a status for a
FOC to be issued. The CLEC mechanized ordering proc	cess does not include LSRs, which are, submitted manually (e.g.,
Tax, and courier).	
Calculation:	
Report Structure:	
 Provides a list, with the flow through activity, of LS period with an explanation of the of the columns on 	d content. This report is sucilable on a CLEC succific hosis. The
period with an explanation of the of the columns an	a coment. This report is available on a CLEC specific basis. The
Feport provides the following for each LSR.	
> Ver	
> Timestamn	
> Type	
\rightarrow Err #	
Note or error description	
Level of Disaggregation:	
Region	
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Experience:
Report month	NA
• Record of LSRs received by cc. pon, and ver	
• Record of timestamp, type, err # and note or error	
description for each LSR by cc, pon, and ver.	
Retail Analog/Benchmark:	and a second
Not Applicable	

Revision Date: 5/2/00(tm)

LSR Flow-Through Matrix

				PLANNED					
PROPINE	F5	COMPLEX	COMPLEX	FALLOUT	EO1	7102	Chic and	1 -10-3	
PRODUCI	- F /1	SEDVICE	OPDER	FUR	EDI	IAG	LENS 99	LENS	COMMENTS
		SERVICE	ONDER	HANDLING !					
				mandemo					
2 wire analog DID trunk port	No	UNE	Yes	NA	N	N	N	N	
2 wire analog port	Yes	UNE	No	No	Y	- <u>v</u>	N	N	······
2 wire ISDN digital line side port	No	UNE	Yes	NA	N		<u> </u>	N	·
2 wire ISDN digital loop	No	UNE	Yes	Yes	Y		N	N	
3 Way Calling	Yes	No	No	No	Y	- <u>-</u> -	Y Y	Y	
4 wire analog voice grade loop	Yes	UNE	Yes	No	Y	Y	N	N	
4 wire DS0 & PRI digital loop	No	UNE	Yes	NA	N	N	N	N	
4 wire DS1 & PRI digital loop	No	UNE	Yes	NA	N	Ň	N	N	
4 wire ISDN DSI digital trunk ports	No	UNE	Yes	Yes	Ν	N	N	N	
Accupulse	No	Yes	Yes	NA	N	N	N	N	
ADSL	No	UNE	Yes	NA	N	N	N	N	
Area Plus	Yes	No	No	No	Y	Y	Y	Y	
Basic Rate ISDN	No	Yes	Yes	Yes	Y	Y	N	N	
Call Block	Yes	No	No	No	Y	Y	Y	Y	
Call Forwarding-Variable	Yes	No	No	No	Y	Y	Y	Y	
Call Return	Yes	No	No	No	Υ	Ŷ	Y	Y	
Call Selector	Yes	No	No	No	Y	Y	Y	Y	······································
Call Tracing	Yes	No	No	No	Y	Y	Y	Y	
Call Waiting	Yes	No	No	No	Y	Y	Y	Y	
Call Waiting Deluxe	Yes	No	No	No	Y	Y	Y	Y –	
Caller ID	Yes	No	No	No	Y	Y	Y	Y –	
CENTREX	No	Yes	Yes	NA	Ν	N	N	N	
DID WITH PBX ACT W	No	Yes	Yes	Yes	Y	N	Y	N	
DID ACT W	No	Yes	Yes	Yes	Y	N	Y	N	
Digital Data Transport	No	UNE	Yes	NA	N	N	N	N	
Directory Listing Indentions	No	No	No	Yes	Y	Y	Y	Y	
Directory Listings Captions	No	No	Yes	Yes	Y	Y	Y	N	
Directory Listings (simple)	Yes	No	No	No	Y	Y	Y	Y –	
DS3	No	UNE	Yes	NA	N	N	N	N	
DS1 Loop	Yes	UNE	Yes	No	Υ	Y) N	N	

DSO Loop	Yes	UNE	Yes	No	Y	Y	N	N	
Enhanced Caller ID	Yes	No	No	No	Y	Y	Y	Y Y	
ESSX	No	Yes	Yes	NA	N	N	N	N	
Flat Rate/Business	Yes	No	No	No	Y	Y	Y	Ý	
Flat Rate/Residence	Yes	No	No	No	Y	Y	Y	Y	
FLEXSERV	No	Yes	Yes	NA	N	N	N	N	
Frame Relay	No	Yes	Yes	NA	N	N	N	N	
FX	No	Yes	Yes	NA	N	N	N	N	· · · · · · · · · · · · · · · · · · ·
Ga. Community Calling	Yes	No	No	No	Y	Y	Y	Y	· · · · · · · · · · · · · · · · · · ·
HDSL	No	UNE	Yes	NA	N	N	N	N N	
Hunting MLH	No	C/S [®]	C/S	Yes	Y	Y	N	N	
Hunting Series Completion	Yes	C/S	C/S	No	Y	Y -	Y	Y T	······································
INP to LNP Conversions	No	UNE	Yes	Yes	Y	Y	N	N	· · · · · · · · · · · · · · · · · · ·
LightGate	No	Yes	Yes	NA	N	N	N	N	
Local Number Portability	Yes	UNE	Yes	No	Y	Y	N	N	
LNP with Complex Listing	No	UNE	Yes	Yes	Y	Y	N	N	
LNP with Partial Migration	No	UNE	Yes	Yes	Y	Y	N	N	
LNP with Complex Services	No	UNE	Yes	Yes	Y	Y	N	N	·
Loop+INP	No	UNE	No	Yes	Y	Y	N	N	
Loop+LNP	Yes	UNE	No	No	Y	Ŷ	N	N	
Measured Rate/Bus.	Yes	No	No	No	Y	Y	Y	Y	
Measured Rate/Res.	Yes	No	No	No	Y	Y	Ŷ	Y	
Megalink	No	Yes	Yes	NA	N	N	N	N	· · · · · · · · · · · · · · · · · · ·
Megalink-T1	No	Yes	Yes	NA	N	N	N	Ň	
Memory Call	Yes	No	No	No	Y	Y	Y	Y	
Memory Call Ans. Svc.	Yes	No	No	No	Y	Y	Y	Ý	
Multiserv	No	Yes	Yes	NA	N	N	Ň	N	
Native Mode LAN Interconnection (NMLI)	No	Yes	Yes	NA	N	Ň	N	N	· · · · · · · · · · · · · · · · · · ·
Off-Prem Stations	No	Yes	Yes	NA	N	N	N	N	
Optional Calling Plan	Yes	No	No	No	Y	Y	Y	Y	
Package/Complete Choice and area plus	Yes	No	No	No	Y	Y	Y	Y	
Pathlink Primary Rate ISDN	No	Yes	Yes	NA	N	N	N	N	
Pay Phone Provider	No	No	No	NA	N	Ň	N	N	
PBX Standalone ACT A,C, D	No	Yes	Yes	Yes	Y	Ý	Ŷ	N	
PBX Trunks	No	Yes	Yes	Yes	Y	Y	Y	N	
Port/Loop Combo	Yes	UNE	No	No	Y	Y	Y	N	······································
Port/Loop PBX	No	No	No	Yes	Y	Y	N	N	
Preferred Call Forward	Yes	No	No	No	Y	Y	Y	Y	

RCF Basic	Yes	No	No	No	ΤΥΙ	Y	Ŷ	Y	 	
Remote Access to CF	Yes	No	No	No	Y	- Y	Ŷ	Y -	 	
Repeat Dialing	Yes	No	No	No	Y	Y	<u> </u>	Y	 	
Ringmaster	Yes	No	No	No	- Y	- <u>Y</u>	Y	N	 	
Smartpath	No	Yes	Yes	NA		N	N	N	 	
SmartRING	No	Yes	Yes	NA	N	N	N	N		
Speed Calling	Yes	No	No	No	T Y	Y	Y	Y	· · · · ·	
Synchronet	No	Yes	Yes	Yes	T Y	Y	N	N	 	
Tie Lines	No	Yes	Yes	NA		N	Ň	N		
Touchtone	Yes	No	No	No	Y	Ŷ	Y	Y	 	
Unbundled Loop-Analog 2W, SL1, SL2	Yes	UNE	No	No	Y	Y	Y	N	 	
WATS	No	Yes	Yes	NA		Ň	N	Ň	 — • •	
XDSL Extended LOOP	No	UNE	Yes	NA	N	N	N	N		

BellSouth Service Quality Measurements Plan

Note 1: 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 ²: The TAG column includes those LSR submitted via RoboTAG.

Note³: The LENS column denotes the ordering status of services prior to OSS 99.

Note 4: The LENS 99 column denotes the ordering status of services post OSS 99.

Note ⁵: 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), class of service invalid in certain states with some TOS – e.g. gov't, 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, restore or suspend for UNE combos, CSR inaccuracies such as invalid or missing CSR data in CRIS, Directory listings, transfer of calls option for CLEC end user— new TN not yet posted to BOCRIS. many are unique to the CLEC environment.

Note⁶: Services with C/S in the Complex Service and/or the Complex Order columns can be either complex or simple

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Report/Measurement:
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.
Service Requests canceled by the CLEC prior to being rejected/clarified.
Business Rules:
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. In LEO, Fatal Rejects are included in the "Other" category for Regional reports only.
• 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 BST 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 as a separate category.
Calculation: Percent Rejected Service Requests = (Total Number of Rejected Service Requests in the reporting period) / (Total Number of Service Requests Received in the reporting period) X 100.
Report Structure:
Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized
CLEC Specific CLEC Aggregate
Level of Disaporegation:
Product Reporting Levels
Resale Residence
Resale Business
Resale – Design (Special)
> UNE Loop with NP
> Interconnection Trunks
Geographic Scope
State, Region and further geographic disaggregation as required by State Commission Order
Product Specific % Rejected
Total % Rejected

O - 10 July, 2000

ORDERING (O-5. Percent Rejected Service Requests – Continued)

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Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:
Report month	
Total number of LSRs	
Total number of Rejects	
State and Region	
 Total Number of ASRs (Trunks) 	
Retail Analog/Benchmark:	
See Appendix D	

Revision Date: 07/27/00 (lg)

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Report/Measurement:
O-6. 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.
• The following hours for Non-mechanized LSRs are excluded from the interval calculation*:
- Residence Resale Group - from 10:00 PM Saturday until 7:00 AM Monday.
-Business Resale, Complex, UNE Groups - from 8:00 PM Friday until 8:00 AM Monday.
* The hours excluded will be altered to reflect changes in the Center operating hours.
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 LEO). Auto Clarifications are considered in the
Fully Mechanized category.
• <u>Partially Mechanized</u> : 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 LEO.
• <u>Total Mechanized</u> : Combination of Fully Mechanized and Partially Mechanized LSRs which are electronically submitted by the CLEC.
• <u>Non-Mechanized</u> : 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.
• <u>Interconnection Trunks</u> : 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 as a separate category.
Reject Interval = Σ [(Date and Time of Service Request Rejection) – (Date and Time of Service Request Receipt)] / (Number
of Service Requests Rejected in Reporting Period)
Report Structure: 1. Area and a state of the
CLEC Specific
CLEC Aggregate
Fully Mechanized, Partially Mechanized, Total Mechanized, Non-Mechanized, Trunks

ORDERING - (O-6. Reject Interval - Continued)

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L'EVELO	Lieuggregation:
	roduct Reporting Levels
	Kesale – Residence
	Resale – Business
	Resale – Design (Special)
	> Other
	> UNE Loop with NP
	Interconnection Trunks
	< 10 Circuits/Lines
	> 10 Circuits/Lines
• (leographic Scope
	State, Region and further geographic disaggregation as required by State Commission Order
• N	Acchanized:
	0 - < 4 minutes
	4 - < 8 minutes
	8 - < 12 minutes
	12 - < 60 minutes
	0 - < 1 hour
	1 - < 8 hours
	8 - < 24 hours
	>24 hours
• N	fon-mechanized:
	0 - < 1 hour
	1 - < 4 hours
	4 - < 8 hours
	8 - < 12 hours
	12 - < 16 hours
	16 - < 20 hours
	20 - < 24 hours
	> 24 hours.
• T	runks:
	< 5 days
	> 5-8 days
	> 8-12 days
	>12-14 days
	>14-17 days
	>17-20 days
	> 20 days
• A	verage Interval for mechanized reports in hours, non-mechanized and Trunk reports in days.
Data Re	ained Relating to CLEC Experience: Data Retained Relating to BST Performance:
• R	eport month
• R	eject Interval
• T	otal Number of LSRs
• T	otal number of Rejects
• St	ate and Region
• T	otal Number of ASRs (Trunks)
Retail	natog/Benchmark:
See Ar	pendix D
_	A

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Report/Messurement:
0-7. Firm Order Confirmation Timeliness
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.
Exolution of a find of a f
Rejected I SRs
 Designated Holidays are excluded from the interval calculation
 The following hours for Non-mechanized LSRs are excluded from the interval calculation*:
- Residence Resale Group - from 10:00 PM Saturday until 7:00 AM Monday.
-Business Resale, Complex, UNE Groups - from 8:00 PM Friday until 8:00 AM Monday.
* The house avaluded will be altered to reflect changes in the Center exercting house
The hours excluded will be altered to reflect changes in the Center operating hours.
Business Kupa: Evily 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.
Bartially Machanizad. The alonged time from respire of a valid electronically sybmitted I SD which falls out for many al
• <u>Partially Mechanized</u> : The elapsed time from receipt of a valid electromically sublimited LSK which fails out for manual handling until appropriate service orders are issued by a BST service representative via Direct Order Entry (DOE) or
Service Order Negotistion Generation System (SONGS) to SOCS and a Firm Order Confirmation is returned to the
CLFC
<u>Total Mechanized</u> : 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 BST 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 Interconnection Purchasing Center (IPC). Trunk data is reported as a separate category.
Firm Order Confirmation Timeliness - SI(Date and Time of Firm Order Confirmation) (Date and Time of Firm Order
Receipt) / (Number of Service Requests Confirmed in Reporting Period)
Report Structure
Fully Mechanized Dartially Mechanized Total Mechanized Non Mechanized
• CLEC Specific
CLEC Specific CLEC Aggregate
Level of Disaggregation:
Product Reporting Levels
> Resale – Residence
Resale – Business
Resale – Design (Special)
> Other
> UNE
> UNE Loop with NP
Interconnection Trunks
\leq 10 Circuits/Lines
> 10 Circuits/Lines

ORDERING - (O-7. Firm Order Confirmation Timeliness - Continued)

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Revision Date: 06/20/00 (lg)

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0-8. Speed of Answer in Ordering Center	
Definition:	
Measures the average time a customer is in queue.	
Exclusionst	
None	
Business Kules:	
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 BST 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 the a service representative in	
BST's Local Carrier Service Center (LCSC) answers the CLEC call.	
(Total seconds in queue)) / (Total number of calls answered in the Reporting Period)	
Report Structure:	
Aggregate	
CLEC – Local Carrier Service Center	
• BST	
- Business Service Center	
- Residence Service Center	
Note: Combination of Residence Service Center and Business Service Center data under development	
Level of Disaggregation in the second s	
Aggregate	
• CLEC – Local Carrier Service Center	
• BST	
- 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	
Mechanized tracking through I CSC Automatic Mechanized tracking through DST Datail contact manual	
Call Distributor	
Systems	
Parall Anglog/Renahmerk	
For CLEC. Sneed of Answer in Ordering Center (LCSC) is comparable to Sneed of Answer in DST Duringer Officer	
See Appendix D	
Retail Analog/Benchmark: For CLEC, Speed of Answer in Ordering Center (LCSC) is comparable to Speed of Answer in BST Business Offices. See Appendix D	

Revision Date: 06/20/00 (lg)

ORDERING - (LNP)

Report/Mensurement: O-9. 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 excluded.

- Service Requests canceled by the CLEC
- Fatal Rejects
- Order Activities of BST or the CLEC associated with internal or administrative use of local services (Record Orders, Test Orders, etc.) where identifiable.
- Non Mechanized LSR's

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.

<u>Partially Mechanized</u>: 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 (rejected) to the CLEC.

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

Calculation: [(Number of Service Requests Rejected in the Reporting Period) / (Number of Service Requests Received in the Reporting Period)] x 100

- Report Structure:
 - Fully Mechanized, Partially Mechanized, Total Mechanized
 - CLEC Specific
 - CLEC Aggregate
- Level of Disaggregation:
 - Product Reporting Levels
 - > LNP
 - ➢ UNE Loop with LNP
 - Geographic Scope
 - State, Region

Retail Analog/Benchmark:

See Appendix D

Revision Date: 05/15/00 (lg)

ORDERING - (LNP)

Report/Messurement2 **O-10.** LNP-Reject Interval Distribution & Average Reject Interval

Definition: s

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, i.e., fatal rejects are excluded.

- Exclusions: # # Service Requests canceled by the CLEC
 - **Fatal Rejects**
 - Order Activities of BST or the CLEC associated with internal or administrative use of local services (Record Orders, Test Orders, etc.) where identifiable.
 - Non Mechanized LSR's

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 BST 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.

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 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.

Calculation:

Average Reject Interval:

Σ[(Date & Time of Service Request Rejection) – (Date & Time of Service Request Receipt)] / (Total Number of Service **Requests Rejected in Reporting Period)**

Reject Interval Distribution:

[Service Requests Rejected in "X" minutes/hours) / (Total Number of Service Requests Rejected in Reporting Period)] X 100

2. A LATE CONTRACTOR AND A LATE AND A LA

Report Structure:

- Fully Mechanized, Partially Mechanized, Total Mechanized •
- **CLEC Specific**
- **CLEC** Aggregate
<u>ORDERING – (O-11. LNP-Firm Order Confirmation Timeliness Interval Distribution & Firm Order</u> <u>Confirmation Average Interval – Continued</u>)

el of Disaggregation:
Reported in intervals
0-15 minutes
> 15-30 minutes
> 30-45 minutes
> 45-60 minutes
> 60-90 minutes
> 90-120 minutes
>120-240 minutes
> 4-8 hours
> 8-12 hours
> 12-16 hours
> 16-20 hours
> 20-24 hours
> 24-48 hours
> 48 nours
Product Reporting Levels
> UNE LOOP WITH LNP
Geographic Scope
State, Region
all Analog/Benchmarki
ee Appendix D
Revision Date: 05/15/00 (lg)

PROVISIONING - (P-1. Mean Held Order Interval & Distribution Intervals - Continued)

Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:
Report month	Report month
CLEC Order Number and PON (PON)	BST Order Number
Order Submission Date (TICKET_ID)	Order Submission Date
Committed Due Date (DD)	Committed Due Date
Service Type (CLASS_SVC_DESC)	Service Type
Hold Reason	Hold Reason
Total line/circuit count	Total line/circuit count
Geographic Scope	Geographic Scope
NOTE: Code in parentheses is the corresponding header	
found in the raw data file.	
Retail Analog/Benchmark:	
CLEC Residence Resale/BST Residence Retail	
CLEC Business Resale/BST Business Retail	
CLEC Non-UNE Design/BST Design	
Interconnection Trunks-CLEC/Interconnection Trunks - B	ST
UNEs-(See Appendix D)	
	Revision Date: 07/15/00 (taf)

<u>PROVISIONING</u> – (P-4. Average Completion Interval (OCI) & Order Completion Interval Distribution – Continued)

Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:
Report month	Report month
CLEC Company Name	BST Order Number
Order Number (PON)	Order Submission Date & Time
 Submission Date & Time (TICKET_ID) 	Order Completion Date & Time
Completion Date (CMPLTN_DT)	Service Type
Service Type (CLASS_SVC_DESC)	Geographic Scope
Geographic Scope	
NOTE: Code in parentheses is the corresponding header found in the raw data file.	
Retail Analog/Benchmark:	
CLEC Residence Resale / BST Residence Retail	
CLEC Business Resale / BST Business Retail	
CLEC Non-UNE Design / BST Design	
Interconnection Trunks-CLEC / Interconnection Trunks-BS	ST
UNEs-(See Appendix D)	
	Revision Date: 07/15/00 (taf)

PROVISIONING

Report/Measurement:	
P-5. Average Completion Notice Interval	
The Completion Notice Interval is the elanced time betwee	n the BST reported completion of work and the issuance of a
valid completion notice to the CLEC	in the DST reported completion of work and the issuance of a
Exclusions:	
Non-mechanized Orders	
Partially Mechanized Orders	
Cancelled Service Orders	
Order Activities of BST associated with internal or admit	nistrative use of local services.
• D&F orders	
Business Rules:	
Measurement on interval of completion date and time enter	red by a field technician on dispatched orders, and 5PM start
time on the due date for non-dispatched orders; to the release	use of a notice to the CLEC/BST 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 com	ipletion is rejected, it is manually corrected and then
completed by the wMC. The notice is returned on each in	alvidual order submitted and as the notice is sent
the completion stamp either by the field technician or the S	DM due date stamp: the end time is the time stamp the notice
was submitted to the CLEC/BST system	The due date stamp, the end time is the time stamp the notice
Calculation:	
Σ (Date and Time of Notice of Completion) – (Date and Ti	me of Work Completion) / (Number of Orders with Notice of
Completion in Reporting Period)	
Report Structure:	
CLEC Specific	
CLEC Aggregate	
BST Aggregate	
Level of Disaggregation:	
• Reporting intervals in Hours; 0-1, 1-2, 2-4, 4-8, 8-12,	12-24, > 24, plus Overall Average Hour Interval
 Reported in categories of <10 line/circuits; > = 10 line 	/circuits
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:
• Report month	Report month
• CLEC Order Number (so_nbr)	• BST Order Number (so_nbr)
Work Completion Date (cmpltn_dt)	Work Completion Date (cmpltn-dt)
• Work Completion Lime	• Work Completion Time
Completion Notice Availability Date	Completion Notice Availability Date
Completion Notice Availability Time Service Tume	Completion Notice Availability Time Semilar Time
• Service Type	Service Type Geographic Score
NOTE: Code in parentheses is the corresponding header	NOTE: Code in parentheses is the corresponding header
found in the raw data file.	found in the raw data file.
CLEC Pasidance Pasala/PST Pasidance Patail	
CLEC Residence Resale/BST Residence Retail	
CLEC Non-UNE Design/BST Design	
Interconnection Trunks-CLEC/Interconnection Trunks – B	ST
UNEs-(See Appendix D)	
	Revision Date: 07/15/00 (taf)

PROVISIONING

Report/Measurement:		
P-6. Coordinated Customer Conversions Interval		
Definition		
This report measures the average time it takes BST to disconne	ect an unbundled loop from the BST switch and cross	
connect it to a CLEC's equipment. This measurement applies	to service orders with and without LNP, and where the	
CLEC has requested BST to provide a coordinated cutover.		
Exclusions:		
• Any order canceled by the CLEC will be excluded from the	nis measurement.	
Delays due to CLEC following disconnection of the unbut	ndled loop	
Unbundled Loops where there is no existing subscriber lo	op and loops where coordination is not requested.	
Bosiness Roles:		
Where the service order includes LNP, the interval includes the	e total time for the cutover including the translation time to	
place the line back in service on the ported line. The interval is	calculated for the entire cutover time for the service order	
and then divided by items worked in that time to give the avera	ige per item interval for each service order.	
Calculation:	ardinated Unhundlad Loon) (Disconnection Date and Time	
2 [(Completion Date and Time for Cross Connection of an Country of Linburght and Linbu	ndled Loop with Coordinated Conversions (items) for the	
of an Coordinated Unbundled Loop)] / Total Number of Onbu	nuce Loop with Coordinated Conversions (nems) for the	
reporting period.		
Keport Structure:		
• CLEC Specific		
CLEC Aggregate		
Level of Disaggregation.		
Reported in intervals <=5 minutes; >5,< =15 minutes; >15 min	nutes, plus Overall Average interval	
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience	
Report Month	No BST Analog Exists	
CLEC Order Number		
Committed Due Date (DD)		
 Service Type (CLASS_SVC_DESC) 		
Cutover Start Time		
Cutover Completion time		
 Portability start and completion times (INP orders) 		
Total Conversions (Items)		
NOTE: Code in parentheses is the corresponding header		
found in the raw data file.		
Recall Analog/Benchmark.		
Benchmark – See Appendix D		

Revision Date: 07/15/00 (taf)

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PROVISIONING

Report/Measurement: P-6A. Coordinated Customer Conversions – Hot Cur Definition: This category measures whether BST begins the cutover of an requested time. It is measures the percentage of orders worked and the average interval. Exclusions:	t Timeliness % within Interval and Average Interval unbundled loop on a time specific order at the CLEC d within 15 minutes of the requested start time of the order	
 Any order canceled by the CLEC will be excluded from t Delays caused by the CLEC Unbundled Loops where there is no existing subscriber loops 	his measurement.	
 All unbundled loops on multiple loop orders after the first 	t loop.	
Business Rules:		
at the CLEC requested start time. The cut is considered on time time. Using the scheduled time and the actual cutover start time the average interval. If a cut involves multiple lines, the cut we interval. ≤ 15 minutes includes intervals that began 15 minutes minutes or less after the scheduled cut time; >15 minutes, ≤ 30 prior to or after the scheduled cut time; >30 minutes includes of scheduled cut time.	bundled loop on a coordinated and/or a time specific order be if it starts 15 minutes before or after the requested start he, the measurement will calculate the % within interval and ill be considered "on time" if the first line is cut within the s or less before the scheduled cut time and cuts that began 15 minutes includes cuts within $15:00 - 30:00$ minutes either cuts greater than $30:00$ minutes either prior to or after the	
Calculation:		
 % within Interval – [Total Number of Coordinated Unbundled Loop Orders for the interval] / Total Number of Coordinated Unbundled Loop Orders for the reporting period X 100. Average Interval - [Σ (Scheduled Date and Time for Cross Connection of a Coordinated Unbundled Loop Order) – 		
(Actual Start Date and Time of a Coordinated Unbundled Loo)	p Order)] / Total Number of Coordinated Unbundled Loop	
Report Structure:		
CLEC Specific		
CLEC Aggregate		
Level of Disaggregation:		
Reported in intervals of early, on time and late cuts $\% \le 15$ mi	nutes; $\% > 15$ minutes, ≤ 30 minutes; $\% > 30$ minutes, plus	
Product Reporting Level		
SL1 Time Specific		
SL1 Non-Time Specific		
SL2 Time Specific Coordinated Cuts (SL2 Non Time Specific)		
> Coordinated Cuts (SE2 Non-Time Specific)		
Data Ketained Kelating to CLEU Experience	Data Retained Relating to BST Experience	
CLEC Order Number (so. nbr)	No BST Analog Exists	
Committed Due Date (DD)		
• Service Type (CLASS_SVC_DESC)		
Cutover Scheduled Start Time		
Cutover Actual Start Time		
I otal Conversions Orders		
NOTE: Code in parentheses is the corresponding header found in the raw data file.		

Retail & paint Renchmark	Service Quanty measurements r lan	
Benchmark – 95% Within + or –	15 minutes of Scheduled Start Time	
	•	Revision Date: 07/11/00 (BF)
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	4 4 4	
	1 • •	
	:	
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PROVISIONING

Report/Measurement: P-6B. Coordinated Customer (Conversions - % Provi	sioning Troubles Received Within 7 days of a
completed Service Ord	er (Under Developme	nt)
Definition:		
Percent Provisioning Troubles receiv	ved within 7 days of a com	pleted service order associated with a Coordinated
Customer Conversion. Measures th	he quality and accuracy of	Coordinated Customer Conversion Activities.
Exclusions:	in di dina si su su para si para si para si s	an a
• Any order canceled by the CLE	Ċ	
• Troubles caused by Customer Pr	rovided Equipment	
Business Rules:		
Measures the quality and accuracy of	f completed service orders	associated with Coordinated Customer Conversions. The
first trouble report received on a circu	uit ID within 7 days follow	ving a service order completion is counted in this measure.
Subsequent trouble reports are measu	ured in Repeat Report Rate	e. Reports are calculated searching in the prior report period
for completed Coordinated Customer	r Conversion service orde	rs and following 30 days after the completion of the service
order for a trouble report issue date.		
Colsulation		
% Provisioning Troubles within 7 da	we of service order comple	$=\Sigma(Trouble reports on all completed Coordinated)$
78 Flovisioning Housies within 7 da	lave following service order	r(s) completion) / (All Coordinated Customer Conversion
customer conversion circuits ≤ 7 d	ays following service of de	month) X 100
Service order circuits completed in th	le previous report calendar	
CI EQ 9		
• CLEC Specific		
CLEC Aggregate		
Tevel m Disaggregation		
• Design		
Non-Design		
Data Retained Relating to CLEO Ex	perience	Data Retained Relating to BST Experience
Report Month		No BST Analog exists
CLEC Order Number (so_nbr)		
PON		
Order Submission Date(TICKE)	T_ID)	
Order Submission Time(TICKE	T ID)	
Status Type		
Status Notice Date		
Standard Order Activity		
Geographic Scone		
Total conversion circuits		
NOTE: Code in parentheses is the co	orresponding header	
found in the raw data file.	r	
Retail Analog/Benchmark		
\leq 5% of total circuits		
\leq 5% of total circuits		

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PROVISIONING

Report Measurement	an a
P-7. % Provisioning Troubles within 30 days of Service	Order Completion
Definition:	
Percent Provisioning Troubles within 30 days of Service O	rder Completion measures the quality and accuracy of Service
order activities.	
Exclusions:	
Canceled Service Orders	
Order Activities of BST or the CLEC associated with	internal or administrative use of local services
(R Orders, Test Orders, etc.)	
• D&Forders	
Trouble reports caused and closed out to Customer Pro	ovided Equipment (CPE)
Business Rules:	
Measures the quality and accuracy of completed orders. In	e first trouble report from a service order after completion is
counted in this measure. Subsequent trouble reports are me	asured in Repeat Report Rate. Reports are calculated searching in
the prior report period for completed service orders and for	lowing so days after completion of the service order for a double
$D \ $ E orders are excluded as there is no subsequent activity	v following a disconnect
D & F olders are excluded as there is no subsequent activity	ronowing a disconnect.
Calculation:	
% Provisioning Troubles within 30 days of Service Order A	Activity = Σ (Trouble reports on all completed orders \leq 30 days
following service order(s) completion) / (All Service Order	s completed in the previous report calendar month) X 100
Report Structure:	
CLEC Specific	
CLEC Aggregate	
BST Aggregate	
Level of Disaggregation:	
• Reported in categories of <10 line/circuits; > = 10 line	/circuits
Dispatch / No Dispatch	
Data Retained Relating to ULEU Experience	Data Retained Relating to BST Experience
• Report Month	• Report Month
• CLEC Order Number and PON	• BST Order Number
• Order Submission Date(TICKET_ID)	Order Submission Date
• Order Submission Time (TICKET_ID)	• Order Submission Time
• Status Type	• Status Type
• Status Notice Date	• Status Notice Date
Standard Order Activity	Standard Order Activity
Geographic Scope	Geographic Scope
NOTE: Code in parentheses is the corresponding	
header found in the raw data file	
Retail Analog/Renchmark*	
CLEC Residence Resale / BST Residence Retail	
CLEC Business Resale / BST Business Retail	
CLEC Non-UNE Design / BST Design	
Interconnection Trunks-CLEC / Interconnection Trunks-B	ST
UNEs-(See Appendix D)	

Revision Date: 0725/00 (taf)

PROVISIONING

P-8. Total Service Order Cycle Time (ISOCT) This report measures the total service order cycle time from receipt of a valid service order request to the completion of the service order. Exclusion of the service order. Exclusion of the service order. Canceled Service Orders Order Activities of BST or the CLEC associated with internal or administrative use of local services (Record Orders, Test Orders, etc.) D (Disconnect) and F (From) orders. (From is disconnect side of a move order when the customer moves to a new address). " " " 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. Buildee/Holds The interval is determination with Average Order Completion Interval. This interval starts with the receipt of a valid service order request and stops when the technician or system completes the order in CSC. Elapsed time for each order is accumulated for each reporting dimension. The accumulated time for each orders accumulated for each reporting dimension is then divided by the associated total number of orders completed. 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. Table Strutee Order Cycle Time: D(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Cubprise of < 10 line/circuits > 10 line/cir	Report Measurement;	
International This report measures the total service order cycle time from receipt of a valid service order request to the completion of the service order. Windowship Canceled Service Orders Order Activities of BST or the CLEC associated with internal or administrative use of local services (Record Orders, rest Orders, ex.) D (Disconnect) 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) "Criters with CLEC/Subscriber caused delays or CLEC/Subscriber requested due date changes. Honnes Rules The interval is determined for each order processed during the reporting period. This measurement combines two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval. This interval starts with the receipt of a valid service order request 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 encelauted 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. CatLeC Aggregate BST Aggregate <td< td=""><td>P-8. Total Service Order Cycle Time (ISOCI)</td><td></td></td<>	P-8. Total Service Order Cycle Time (ISOCI)	
This report measures the total service order cycle time from receipt of a valid service order request to the completion of the service order. TardioDati • Canceld Service Orders. • Order Activities of BST or the CLEC associated with internal or administrative use of local services (Record Orders, Test Orders, etc.) • D (Disconnect) and F (From) orders. (From is disconnect side of a move order when the customer moves to a new address). • ""-" Appointment coded orders (where the customer has requested a later than offered interval) • Orders with CLECS/subscriber caused delays or CLEC/Subscriber requested due date changes. Distinger Rules The interval is determined for each order processed during the reporting period. This measurement combines two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval. This interval starts with the receipt of a valid service order request 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 orders accusated with a. 33 day interval (8 hours) in order to reporting dimension. The accumulated time for each orders are issued and worked/completed on same day. They can be either flow through orders (no field work-non-dispatched) or field orders(inpatched). Reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs. Classification CLEC Agercgate • BST Aggregate • BST Aggregate • Fully	Definition:	
service order. • Canceled Service Orders • Order Activities of BST or the CLEC associated with internal or administrative use of local services (Record Orders, Test Orders, etc.) • D (Disconnect) 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 requested due date changes. Report States with CLEC/Subscriber requested due date changes. Report order Confirmation) with Average Order Completion Interval. This interval starts with the receipt of a valid service order request and stops when the technician or system completes the order in SOCS. Elapsed time for each order is accumulated for each reporting dimension. The and invided 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 (Ginpletion Date A and Non-Mechanized receipt of LSRs. Calculations Calculations • CLEC Aggregate Service Order (Cycle Time: 2(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Mouth • Service Trape • CLEC Aggregate • Service Order (Cycle Time: 2(Completion Date & Crupe) - 30 Days Dispat	This report measures the total service order cycle time from	receipt of a valid service order request to the completion of the
 Canceled Service Orders Order Activities of BST or the CLEC associated with internal or administrative use of local services (Record Orders, Text Orders, etc.) D (Disconnect) and F (From) orders. (From is disconnect side of a move order when the customer moves to a new address). "J" 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. Durner f Wile: The interval is determined for each order processed during the reporting period. This measurement combines two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval. This interval starts with the receipt of a valid service order request and stops when the technician or system completes the order in SOCS. Elapsed time for each order is accumulated 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). Reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized treepit of LSRs. CLEC Aggregate BST Aggregate Fully Mechanized; Partially Mechanized; Non-Mechanized CLEC Aggregate BST Aggregate Fully Mechanized; Partially Mechanized; Non-Mechanized Protestructure Order Sumpto Socies (Socies) Order Sumpto Socies (Socies) Dispatch/No Dispatch categories applicable to all levels exc	service order.	an e shi a shi
Calceter of BST or the CLEC associated with internal or administrative use of local services (Record Orders, Test Orders, etc.) D(Disconnect) 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. The interval is determined for each order processed during the reporting period. This measurement combines two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval. This interval is determined for each order is accumulated for each reporting dimension. The accumulated time for each order is accumulated for each reporting dimension. The accumulated time for each order is accumulated for each reporting dimension. The accumulated time for each order is accumulated for each reporting dimension. The accumulated time for each order is accumulated for each reporting dimension. The accumulated time for each order is accumulated for each reporting dimension. The accumulated time for each order to each reporting dimension. The accumulated time for each order is accumulated for each reporting dimension. The accumulated time for each order is accumulated for each reporting dimension. The accumulated time for each order is accumulated for each reporting dimension. The accumulated time for each order is accumulated for each reporting dimension. The accumulated time for each order is accumulated for each order is accumulated for each order is accumulated for each reporting dimension. The accumulated time for each order is accumulated for each orders completed. Orders that are worked on zero reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs. CLEC Specific CLEC Cagges ab	Canceled Service Orders	
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D (Disconnect) 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. Buttinger Rulest The interval is determined for each order processed during the reporting period. This measurement combines two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval. This interval starts with the receipt of a valid service order request and stops when the technician or system completes the order in SOCS. Elapsed time for each order is accumulated 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). Reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs. Tatelolition Report Structure: CLEC Specific CLEC Specific CLEC Specific Report Month Interval for FOC Report Month Repo	(Record Orders Test Orders etc.)	internation administrative use of focal services
address). "1" Appointment coded orders (where the customer has requested a later than offered interval) "1" Appointment coded orders (where the customer has requested a later than offered interval) "1" Appointment coded orders (where the customer has requested a later than offered interval) "1" Appointment coded orders (where the customer has requested a later than offered interval) "1" Appointment coded orders (customer has requested a later than offered interval) "1" Appointment coded orders (customer has requested a later than offered interval) "The interval is determined for each order processed during the reporting period. This measurement combines two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval. This interval starts with the receipt of a valid service order request 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. Interval Advectors are issued and worked/completed on same day. They can be either flow through orders (no field work-non-dispatched) or field orders(dispatched). Report (ginsatic dispatched). Report flow through orders (no field work-non-dispatched) or field orders (for porting Period) Report Structure Calculation • CLEC Aggregate BST Aggregate • Fully Mechanized, Partially Mechanized; Non-Mechanized Event of Deargpregation? Order Structure <	 D (Disconnect) and F (From) orders. (From is disconnect) 	ect side of a move order when the customer moves to a new
"L" Appointment coded orders (where the customer has requested a later than offered interval) Orders with CLEC/Subscriber caused delays or CLE/Subscriber requested due date changes. Derine Rulee The interval is determined for each order processed during the reporting period. This measurement combines two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval. This interval starts with the receipt of a valid service order request and stops when the technician or system completes the order in SOCS. Elapsed time for each order is accumulated 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). Reporting is by Pully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs. Calculations Calce Specifie CLEC Specifie CLEC Specifie CLEC Specifie CLEC Specifie Fully Mechanized; Partially Mechanized; Non-Mechanized Report of Dispatch categories of <10 line/circuits >= 10 line/circuits Bispatch/No Dispatch categories applicable to all levels except trunks. Intervals 0.5, 5.10, 10-15, 15-20, 20-22, 25-20, >= 30 Days Date Refuter Relating to CLEC Corperview Report Month Interval For FOC CEC Company Name (OCN) Completion Date (CMPLTN_DT) Submission Date & Time (TICKET_ID) Completion Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Heil/Londor/Brehtmark See Anneemiax	address).	
Orders with CLEC/Subscriber caused delays or CLEC/Subscriber requested due date changes. Encircle Structure Starts with the receipt of a valid service order completion Interval. This interval starts with the receipt of a valid service order request and stops when the technician or system completes the order in SOCS. Elapsed time for each order is accumulated for each reporting dimension is then divided by the associated total number of orders completed. The accumulated time for each order of uc 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. CLEC Specific CLEC Specific CLEC Aggregate BST Aggregate Fully Mechanized; Partially Mechanized; Non-Mechanized Reported in categories of <10 line/circuits; >= 10 line/circuits 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 Date Retained Relating to RST Experience Report Month Interval for FOC CLEC Company Name (OCN) Completion Date (CIMPLITY_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Created in Categories is the corresponding header found in the raw data file. Create is accumulated in the raw data file. Create is accumulated in the raw data file. Create is accumulated in the raw data file. Created in the r	• "L" Appointment coded orders (where the customer h	as requested a later than offered interval)
Burnee Rules: The interval is determined for each order processed during the reporting period. This measurement combines two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval. This interval starts with the receipt of a valid service order request and stops when the technician or system completes the order is accumulated for each reporting dimension. The accumulated time for each order is accumulated 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). Report find and the accumulated for each reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs. Constructions CLEC Specific CLEC Specific CLEC Aggregate Fully Mechanized; Partially Mechanized; Non-Mechanized Eventof Disaggregation Report Moreture: Report Moreture: Report Month Intervals Or 5, 5-10, 10-15, 15-20, 20-22, 25-25, 25-30, > = 30 Days Data Retained Relating to CLEC Experience Report Month Interval or FOC CLEC Company Name (OCN) Order Submission Date & Time <	Orders with CLEC/Subscriber caused delays or CLEC	/Subscriber requested due date changes.
The interval is determined for each order processed during the reporting period. This measurement combines two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval. This interval starts with the receipt of a valid service order request 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 for a day interval. (Bours) 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). Report Corder Cycle Time: 2(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Structures • CLEC Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized • Dispartch/No Dispatch categories applicable to all levels exc	Business Rules:	
The interval is determined to reach order processed during the reporting period. This measurement combines two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval. This interval starts with the receipt of a valid service order request 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 order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a portion of a day interval (B hours) in order to report a gravity of LSRs. Cheintoric Cheintoric Total Service Order Cycle Time: 2(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Sagregate) Exported in Reporting Period) Report day in categories of < 10 line/circuits		
This interval starts with the receipt of a valid service order request 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 same day. They can be either flow through orders (on field work-non-dispatched) or field orders(dispatched). Reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs. CleCustion Total Service Order Cycle Time: 2(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Structure: • CLEC Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized • CLEC Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized • CLEC Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized • CLEC Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized • CLEC Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized • CLEC Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized • CLEC Aggregate • Fully Mechanized; Partially Mechan	FOC (Firm Order Confirmation) with Average Order Com	bletion Interval.
order in SOCS. Elapsed time for each order is accumulated for each reporting dimension. The accumulated time for each 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. Culculation Total Service Order Cycle Time: 2(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Stracture • CLEC Specific • CLEC Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized Urevals Or Bay preparion • Reported in categories of < 10 line/circuits; > = 10 line/circuits • Dispatch/No Dispatch categories applicable to all levels except runks. • Intervals 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, > = 30 Days Data Rechained Relating to BST Experience • Report Month • Interval f	This interval starts with the receipt of a valid service order	request and stops when the technician or system completes the
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: E(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Structure: • CLEC Specific • CLEC Specific • CLEC Specific • CLEC Specific • CLEC Aggregate • Fully Mechanized; Non-Mechanized Intervals 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, > = 10 line/circuits • 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 Data Retained Relating to BST Experience • Report Month • Interval for FOC • CueC Company Name (OCN) • Order Number (PON) • Submission Date & Time (TICKET_ID) • Service Type (CLASS_SVC_DESC) • Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data	order in SOCS. Elapsed time for each order is accumulated	I for each reporting dimension. The accumulated time for each
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: 2(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Structure: • CLEC Specific • CLEC Aggregate • BST Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized Level of Disaggregation: • Reported in categories of < 10 line/circuits; > = 10 line/circuits • Dispatch/No Dispatch categories applicable to all levels except runks. • Intervals 0.5, 5-10, 10-12, 15-20, 20-25, 25-30, > = 30 Days Data Retained Relating to BST Experience • Report Month • Interval for FOC • CLEC Company Name (OCN) • Order Number (PON) • Submission Date & Time (TICKET_ID) • Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog Benchmark	reporting dimension is then divided by the associated total	number of orders completed. Orders that are worked on zero
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. Calculations Total Service Order Cycle Time: Z(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Structure • CLEC Specific • CLEC Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized Level of Disaggregation: • Reported in categories of < 10 line/circuits; >= 10 line/circuits • 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 Data Retained Relating to CLE/C Experience • Report Month • Intervals of FOC • CLEC Company Name (OCN) • Order Number (PON) • Order Number (PON) • Submission Date & Time (TICKET_ID) • Service Type (CLASS_SVC_DESC) • Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog Benchimark	due dates are calculated with a .33 day interval (8 hours) in	order to report a portion of a day interval. These orders are
orders(dispatched). Reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs. Calculation: Total Service Order Cycle Time: 2(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Structure: • CLEC Specific • CLEC Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized Event Structure: • Report of in categories applicable to all levels except trunks. • Intervals 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, > = 30 Days Data Refained Relating to BST Experience • Report Month • Intervals 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, > = 30 Days Data Refained Relating to BST Experience • Report Month • Intervals 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, > = 30 Days Data Refained Relating to BST Experience • Report Month • Interval for FOC • CLEC Company Name (OCN) • Order Number (PON) • Completion Date (CMPLTN_DT) • Service Type (CLASS SVC_DESC)	issued and worked/completed on same day. They can be en	ther flow through orders (no field work-non-dispatched) or field
Reporting is by Fully Mechanized, Partially Mechanized and Non-Mechanized receipt of LSRs. Calculation: Total Service Order Cycle Time: 2(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Structure: • CLEC Specific • CLEC Aggregate • BST Aggregate • Fully Mechanized; Non-Mechanized Event and the categories of < 10 line/circuits; > = 10 line/circuits • 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 Data Retained Relating to CLEC Experience • Report Month • Interval for FOC • CLEC Company Name (OCN) • Order Number (PON) • Submission Date & Time (TICKET_ID) • Service Type (CLASS_SVC_DESC) • Geographic Scope • BST Order Number • Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. • Geographic Scope	orders(dispatched).	
Calculation: Total Service Order Cycle Time: Σ(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Structure: • CLEC Specific • CLEC Aggregate • BST Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized Levelor Disaggregation: • Report d in categories of < 10 line/circuits; > = 10 line/circuits • 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 Date Retained Relating to BST Experience • Report Month Intervals 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, > = 30 Days Date Retained Relating to BST Experience • Report Month Intervals 0-FOC • CLEC Company Name (OCN) • Order Number (PON) • Service Type (CLASS_SVC_DESC) • Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark See Anonendix D	Reporting is by Fully Mechanized, Partially Mechanized ar	d Non-Mechanized receipt of LSRs.
Total Service Order Cycle Time: Σ(Completion Date of Service Order) - (Date of Service Request Receipt) / (Count of Orders Completed in Reporting Period) Report Stracture • CLEC Specific • CLEC Aggregate • BST Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized Level of Disaggregation • Reported in categories of < 10 line/circuits; >= 10 line/circuits • 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 Data Retained Relating to CLEG Experience • Report Month • Interval for FOC • Order Number (PON) • Submission Date & Time (TICKET_ID) • Submission Date & Time (TICKET_ID) • Service Type (CLASS_SVC_DESC) • Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. RetalicAnalog/Benchmark See Appendix D	Calculation :	
Orders Completed in Reporting Period) Report Structure • CLEC Specific • CLEC Aggregate • BST Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized Level of Disaggregation: • Reported in categories of < 10 line/circuits; >= 10 line/circuits • 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 Data Retained Relating to BST Experience • Report Month • Interval for FOC • CLEC Company Name (OCN) • Order Number (PON) • Submission Date & Time (TICKET_ID) • Submission Date & Time (TICKET_ID) • Service Type (CLASS_SVC_DESC) • Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retalized Robendimark See Appendix D	Total Service Order Cycle Time: Σ (Completion Date of	Service Order) - (Date of Service Request Receipt) / (Count of
Report Structure • CLEC Specific • CLEC Aggregate • BST Aggregate • Fully Mechanized; Partially Mechanized; Non-Mechanized Level of Disaggregation: • Reported in categories of < 10 line/circuits; > = 10 line/circuits • 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 Data Retained Relating to CLEC Experience Data Retained Relating to BST Experience • Report Month • Report Month • Interval for FOC • BST Order Number • CLEC Company Name (OCN) • Order Submission Date & Time • Order Number (PON) • Order Submission Date & Time • Submission Date & Time (TICKET_ID) • Service Type • Geographic Scope • Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. • Geographic Scope Not E: Code in parentheses is the corresponding header found in the raw data file. • Geographic Scope	Orders Completed in Reporting Period)	
 CLEC Specific CLEC Aggregate BST Aggregate Fully Mechanized; Partially Mechanized; Non-Mechanized Level of Disaggregation: Report din categories of < 10 line/circuits; > = 10 line/circuits 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 Data Related Relating to CLEC Experience Report Month Interval for FOC CLEC Company Name (OCN) Order Number (PON) Submission Date & Time (TICKET_ID) Completion Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Ant/Op/Benchmark 	Report Structure:	
 CLEC Aggregate BST Aggregate Fully Mechanized; Partially Mechanized; Non-Mechanized Level of Disggregation Report d in categories of < 10 line/circuits; > = 10 line/circuits 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 Data Retained Relating to CLEC Experience Report Month Interval for FOC CLEC Company Name (OCN) Order Number (PON) Submission Date & Time (TICKET_ID) Submission Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark 	CLEC Specific	
 BST Aggregate Fully Mechanized; Partially Mechanized; Non-Mechanized Level of Disaggregation: Reported in categories of < 10 line/circuits; > = 10 line/circuits 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 Data Retained Relating to BST Experience Report Month Interval for FOC CLEC Company Name (OCN) Order Number (PON) Submission Date & Time (TICKET_ID) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog Benchmark 	CLEC Aggregate	
 Fully Mechanized; Partially Mechanized; Non-Mechanized Level of Disaggregation: Reported in categories of < 10 line/circuits; > = 10 line/circuits 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 Data Retained Relating to CLEC Experience Report Month Interval for FOC CLEC Company Name (OCN) Order Number (PON) Submission Date & Time (TICKET_ID) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark 	BST Aggregate	
Level of Disaggregation: • Reported in categories of < 10 line/circuits; > = 10 line/circuits • 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 Data Retained Relating to CLEC Experience Data Retained Relating to BST Experience • Report Month • Report Month • Interval for FOC • BST Order Number • CLEC Company Name (OCN) • Order Submission Date & Time • Order Number (PON) • Order Completion Date & Time • Submission Date & Time (TICKET_ID) • Service Type • Geographic Scope • Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. • Retail Analog/Benchmark Retail Analog/Benchmark See Appendix D	 Fully Mechanized; Partially Mechanized; Non-Mechanized; 	anized
 Reported in categories of < 10 line/circuits; > = 10 line/circuits 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 Data Retained Relating to BST Experience Report Month Interval for FOC CLEC Company Name (OCN) Order Number (PON) Submission Date & Time (TICKET_ID) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark 	Level of Disaggregation:	
 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 Data Retained Relating to BST Experience Report Month Interval for FOC CLEC Company Name (OCN) Order Number (PON) Submission Date & Time (TICKET_ID) Completion Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark 	 Reported in categories of < 10 line/circuits; > = 10 line/circuits; 	ne/circuits
 Intervals 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, > = 30 Days Data Retained Relating to CLEC Experience Report Month Interval for FOC CLEC Company Name (OCN) Order Number (PON) Submission Date & Time (TICKET_ID) Completion Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark 	 Dispatch/No Dispatch categories applicable to all lev 	els except trunks.
Data Retained Relating to CLEC Experience Data Retained Relating to BST Experience • Report Month • Report Month • Interval for FOC • BST Order Number • CLEC Company Name (OCN) • Order Submission Date & Time • Order Number (PON) • Order Completion Date & Time • Submission Date & Time (TICKET_ID) • Service Type • Completion Date (CMPLTN_DT) • Geographic Scope • NOTE: Code in parentheses is the corresponding header found in the raw data file. • Geographic Scope	• Intervals 0-5, 5-10, 10-15, 15-20, 20-25, $25-30$, $> = 3$	0 Days
 Report Month Interval for FOC CLEC Company Name (OCN) Order Number (PON) Submission Date & Time (TICKET_ID) Submission Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark See Appendix D 	Data Retained Relating to CLEG Experience	Data Retained Relating to BST Experience
 Interval for FOC CLEC Company Name (OCN) Order Number (PON) Submission Date & Time (TICKET_ID) Completion Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark See Appendix D 	Report Month	Report Month
 CLEC Company Name (OCN) Order Number (PON) Submission Date & Time (TICKET_ID) Completion Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark See Appendix D 	Interval for FOC	BST Order Number
 Order Number (PON) Submission Date & Time (TICKET_ID) Completion Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark See Appendix D 	CLEC Company Name (OCN)	Order Submission Date & Time
 Submission Date & Time (TICKET_ID) Completion Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark See Appendix D 	• Order Number (PON)	Order Completion Date & Time
Completion Date (CMPLTN_DT) Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark See Appendix D	• Submission Date & Time (TICKET_ID)	Service Type
Service Type (CLASS_SVC_DESC) Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark See Appendix D	Completion Date (CMPLTN_DT)	Geographic Scope
Geographic Scope NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark See Appendix D	• Service Type (CLASS_SVC_DESC)	
NOTE: Code in parentheses is the corresponding header found in the raw data file. Retail Analog/Benchmark See Appendix D	Geographic Scope	
header found in the raw data file. Retail Analog/Benchmark See Appendix D	NOTE: Code in parentheses is the corresponding	
Retail Analog/Benchmark	header found in the raw data file.	
See Appendix D	Retail Analog/Benchmark	
	See Appendix D	

Revision Date: 07/15/00 (taf)

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PROVISIONING

Report/Measurement:	and a second	
P-9. Service Order Accuracy <u>GEORGIA ONLY</u>		
Definicion		
The "service order accuracy" measurement measures the acc	curacy and completeness of a sample of BST service orders by	
comparing what was ordered and what was completed.		
Exclusions:		
Cancelled Service Orders		
• Order Activities of BST associated with internal or adm	inistrative use of local services	
• D&Forders		
Business Kules:		
A manual sampling of service orders, completed during a m	onthly reporting period, is compared to the original account	
profile and the order that the CLEC sent to BS1. An order 1	s "completed without error" if all service attributes and	
account detail changes (as determined by comparing the ong	and order) completely and accurately reflect the activity	
Pequest cannot be matched with a corresponding Service O	order, it will not be counted. For small sample sizes, when a service	
will be made to replace the service request	act, it will not be counted. For small sample sizes all enort	
Calculation:		
Percent Service Order Accuracy = Σ (Orders Completed without Error) / Σ (Orders Completed in Penceting Period) x 100		
Report Structure		
CLEC Aggregate		
Level of Disapgrevation:		
• Reported in categories of <10 line/circuits; > = 10 line/	'circuits	
• Dispatch / No Dispatch		
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience	
Report Month	• Being investigated at this time	
CLEC Order Number and PON	. .	
Local Service Request (LSR)		
Order Submission Date		
Committed Due Date		
Service Type		
Standard Order Activity		
Retail Analog/Benchmark:		
(Under Investigation)		

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PROVISIONING

Report/Messurement: P-10. LNP-Percent Missed Installation Appointments
"Percent missed installation appointments" monitors the reliability of BST commitments with respect to committed due dates to assure that CLECs can reliably quote expected due dates to their retail customer as compared to BST. This measure is the percentage of total orders processed for which BST is unable to complete the service orders on the committed due dates and reported for both BST and End User Misses.
Exclusions:
 Canceled Service Orders Order Activities of BST or the CLEC associated with internal or administrative use of local services (Record Orders, Test Orders, etc.) where identifiable.
Business Rules: Percent Missed Installation Appointments (PMI) is the percentage of total orders processed for which BST 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 "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.
Calculations
LNP Percent Missed Installation Appointments = Σ (Number of Orders with Completion date in Reporting Period past the Original Committed Due Date) / (Number of Orders Confirmed in Reporting) X 100
ReportStructurez
 Mechanized (service orders generated by LSRs submitted via EDI or TAG)
CLEC Specific
CLEC Aggregate
Report explanation: Total Missed Appointments is the total % of orders missed either by BST 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 BST caused misses.
Texel of Disaggregation:
Product Reporting Levels
LNP LNE Loop Associated w/LND
Constitution Associated w/Line
State Region
Retail Analog/Renchmark
See Appendix D
Revision Date: 07/15/00 (taf)

PROVISIONING - (LNP)

Report/Measurement : P-11 I.NP-Average Disconnect Timeliness Interval & Disconnect Timeliness Interval Distribution
Definition
Disconnect Timeliness is defined as the interval between the time the LNP Gateway receives the 'Number Ported' message from NPAC (signifying the CLEC 'Activate') until the time that the Disconnect service order for an LSR is completed in SOCS. This interval effectively measures BST responsiveness by isolating it from impacts that are caused by CLEC related activities.
Exclusions
Canceled Service Orders
• Order Activities of BST or the CLEC associated with internal or administrative use of local services (Record Orders, Test Orders, etc.) where identifiable.
Business Rules
The Disconnect Timeliness interval is determined for each Disconnect service order processed on an LSR during the reporting period. The Disconnect Timeliness interval is the elapsed time from when BST receives the 'Number Ported' message for an LSR's disconnect order from NPAC (signifying the CLEC 'Activate') until the Disconnect service order is completed 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 total number of selected disconnect orders which have been completed.
Calculation :
Average Disconnect Timeliness Interval:
Σ [(Disconnect Service Order Completion Date & Time) - ('Number Ported' Message Received Date & Time)] / Σ (Total Number of Disconnect Service Orders Completed in Reporting Period)
Disconnect Timeliness Interval Distribution:
[Σ (Disconnect Service Orders Completed in "X" days) / (Total Disconnect Service Orders Completed in Reporting Period)] X 100
Report Structure: A state of the state of th
 Mechanized (service orders generated by LSRs submitted via EDI or TAG)
CLEC Specific
CLEC Aggregate
Level of Diaggregation:
• Reported in day intervals = $0, 1, 2, 3, 4, 5, >5$ days
Product Reporting Levels
Ceographic Scope
 State Region
Retail Analog/Benchmark
See Appendix D

Revision Date: 05/15/00 (taf)

PROVISIONING

Report/Measurement:
P-12. LNP-Total Service Order Cycle Time
Definition in the second se
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 BST or the CLEU associated with internal or administrative use of local services (Record 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 reasons), except for "SP" codes (indicating
subscriber prior due date requested).
Business Rules:
The interval is determined for each service request processed during the reporting period. This measurement combines
two reports: FOC (Firm Order Confirmation) with Average Order Completion Interval.
This interval starts with the respirit of a valid service request and stone when the technician or system completes all the
related service orders for the USR in SOCS. Elanced time for each service request is accumulated for each reporting
dimension. The accumulated time for each reporting dimension is then divided by the associated total number of service
requests completed to produce the total service order cycle time.
Calculation :
Average Total Service Order Cycle Time:
Σ [(Service Order Completion Date) - (Service Request Receipt Date)] / Σ (Total Number Service Requests Completed
in Reporting Period)
Total Service Order Cycle Time Interval Distribution:
Σ (Total Number of Service Requests Completed in "X" minutes/hours) / (Total Number of Service Requests Received in
Reporting Period)] X 100
Report Sincture:
• Mechanized (service orders generated by LSRs submitted via EDI or TAG)
• CLEC Specific
• CLEC Aggregate
• "W" Appointment Code Only (Company Offered)
Level of Insaggregation:
• Reported in day intervals 0 - 5, 5 - 10, 10 - 15, 15 - 20, 20 - 25, 25 - 30, >30 days
• Product Reporting Levels
LINF JINE Loop with INP
Geographic Scope
State. Region
Remit Analog/Benchmark
See Appendix D

Revision Date: 07/15/00 (taf)

Maintenance and Repair Level of Disaggregation

Product Reporting Levels

- Resale / Retail
 - > Pots Residence
 - > Pots Business
 - > Design
 - > PBX (Louisiana SQM)
 - CENTREX (Louisiana SQM)
 - > ISDN (Louisiana SQM) (Note: ISDN Trouble included in POTS for Georgia Only)
- Unbundled Network Elements
 - > UNE Design
 - > UNE Non-Design
 - > UNE 2 Wire Loop (Louisiana SQM)
 - > UNE Loop Other (Louisiana SQM)
 - > Unbundled Ports (Louisiana SQM)
 - > UNE Other Non-Design
 - > Combos, Switching, Local Transport, DSL (under development)
- Trunks
 - Local Interconnection Trunks
- Dispatch/No Dispatch categories applicable to all levels
- Geographic Scope
 - State, Region and further geographic disaggregation as required by State Commission Order (e.g., Metropolitan Service Area – MSA)

MAINTENANCE & REPAIR

Report/Measurements	
M&R-1. Missed Repair Appointments	
Definition	
The percent of trouble reports not cleared by the comm	nitted date and time.
Exclusions:	and the second
• Trouble tickets canceled at the CLEC request.	
 BS1 trouble reports associated with internal or ad Customer Provided Equipment (CDE) troubles on 	ministrative service.
Business Rules	CLEC Equipment Trouble.
The negotiated commitment date and time is established and time that BST personnel clear the trouble and closs or workstation. If this is after the Commitment time, t appointment. When the data for this measure is collect of the time repair appointments are missed due to BST they are not a missed appointment.)	ed when the repair report is received. The cleared time is the date es the trouble report in his/her Computer Access Terminal (CAT) he report is flagged as a "Missed Commitment" or a missed repair ted for BST and a CLEC, it can be used to compare the percentage reasons. (No access reports are not part of this measure because
Note: Appointment intervals vary with force availabit standard interval appointments of no greater than 24 here.	lity in the POTS environment. Specials and Trunk intervals are ours.
Calculation:	
Percentage of missed Repair Appointments = Σ (Count	t of Customer Troubles Not Cleared by the Quoted Commitment
Date and Time) / Σ (Total Trouble reports closed in Re	eporting Period) X 100
Barrow Classer	
CLEC Specific	
CLEC Aggregate	
BST Aggregate	
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:
Report month	Report month
CLEC Company Name	BST Company Code
• Submission Date & Time (TICKET_ID)	• Submission Date & Time
Completion Date (CMPLTN_DT)	Completion Date
• Service Type (CLASS_SVC_DESC)	• Service Type • Dispersition and Course Olen Design (Non Special Only)
• Disposition and Cause (CAUSE_CD & CAUSE_DESC)	 Disposition and Cause (Non-Design /Non-Special Only) Trouble Code (Design and Trunking Services)
Geographic Scope	Geographic Scope
NOTE: Code in parentheses is the corresponding header found in the raw data file.	
Retail Analog/Benchmarke	
CLEC Residence Resale/BST Residence Retail	
CLEC Design-Resale/BST Design-Retail	
CLEC PBX, Centrex, and ISDN Resale/BST PBX, Centrex, and ISDN Retail	
CLEC Trunking-Resale / BST Trunking-Retail	
UNEs-(See Appendix D)	
	Revision Date: 05/15/00 (see)

M&R - 2 July, 2000

MAINTENANCE & REPAIR

Report/Measurement: M&R-2. Customer Trouble Report Rate Definition: Initial and repeated customer direct or referred trouble Exclusions: • Trouble tickets canceled at the CLEC request. • BST trouble reports associated with internal or adr • Customer Provided Equipment (CPE) troubles or 0 Business Rules: Customer Trouble Report Rate is computed by accumu reports closed during the reporting period. The resulting service" lines, ports or combination that exist for the C	s closed within a calendar month per 100 lines/circuits in service. ninistrative service. CLEC Equipment Trouble. alating the number of maintenance initial and repeated trouble ng number of trouble reports are divided by the total "number of LECs and BST respectively at the end of the report month.
Calculation: Customer Trouble Report Rate = (Count of Initial and (Number of Service Access Lines in service at End of the Paparet Structures	Repeated Trouble Reports closed in the Current Period) / the Report Period) X 100
CLEC Specific	n an
CLEC Specific CLEC Aggregate	
BST Aggregate	
Data Retained Relating to CLEC Experience:	Data Retained Relating to BSD Performance:
Report month	Report month
CLEC Company Name	BST Company Code
Ticket Submission Date & Time (TICKET ID)	 Ticket Submission Date & Time
Ticket Completion Date (CMPLTN_DT)	Ticket Completion Date
Service Type (CLASS_SVC_DESC)	• Service Type
• Disposition and Cause (CAUSE CD &	• Disposition and Cause (Non-Design /Non-Special Only)
CAUSE DESC)	Trouble Code (Design and Trunking Services)
• # Service Access Lines in Service at the end of	• # Service Access Lines in Service at the end of period
period	Geographic Scope
Geographic Scope	
NOTE: Code in parentheses is the corresponding header found in the raw data file.	
Retail Analog/Benchmark:	
CLEC Residence Resale/BST Residence Retail	
ULEU Business Kesale/BST Business Ketall CLEC Design Besele/BST Design Betail	
CLEC DEX Centrey and ISDN Receiv/RST DEX Centrey and ISDN Retail	
CLEC FDA, CENTER, and ISDN Resale/DST FDA, CEN	
UNEs-(See Annendix D)	

Revision Date: 07/17/00 (see)

MAINTENANCE & REPAIR

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.	
The Average duration of Customer Trouble Reports from the receipt of the Customer Trouble Report to the time the trouble report is cleared.	
trouble report is cleared.	
Exclusions:	
• Trouble tickets canceled at the CLEC request.	
• BST trouble reports associated with internal or administrative service.	
• Customer Provided Equipment (CPE) troubles or CLEC Equipment Trouble.	
Trouble reports greater than 10 days	
Business Rules:	
For Average Duration the clock starts on the date and time of the receipt of a correct repair request. The clock stops	m N
the date and time the service is restored and the BST or CLEC customer is notified (when the technician completes the	e
trouble ticket on his/her CAT or work systems).	
Celenlation	
Maintenance Average Duration = Σ (Date and Time of Service Restoration) – (Date and Time Trouble Ticket was	<u></u>
(Date and Time Provide Transless in the reporting period)	
Opened) / 2/ Total Closed Houses in the reporting period)	
Report Structures	
a CLEC Specific	<u> </u>
• CLEC Aggregate	
Data Retained Relating to Dot a terror mance.	
Kepon monui Kepon monui Kepon monui Tatal Tialaata Tatal Tialaata	ĺ
Total Tickets (LINE_NDK) Total Tickets DET Compony Code	
CLEC Company Name BSI Company Code Tight Submission Data Tight Submission Data	ļ
Ticket Submission Date & Thile (TICKET_ID) Ticket Submission Date Ticket Submission Time	
Ticket Completion Date (CMPLIN_DI) Ticket Submission Time Ticket Submission Time Ticket Submission Time	
Service Type (CLASS_SVC_DESC) Incket Completion Date Title 4 Completion Time	
Disposition and Cause (CAUSE_CD & Incket Completion Time	
• Total Duration Time	
Geographic Scope Service Type	
• Disposition and Cause (Non-Design /Non-Special Or	y)
• Trouble Code (Design and Trunking Services)	
• Geographic Scope	
Retail Analog/Benchmark:	<u> 19. av</u>
CLEC Residence Resale/BST Residence Retail	
CLEC Business Resale/BST Business Retail	
ULEU DESIGIF-KESAIC/DST DESIGIF-KETAII CLEC DDV Contray and ISDN Basala/DST DDV Contray and ISDN Batail	
CLEC PDA, COMUCA, and ISDIN Resale/BST PDA, COMUCA, and ISDIN Rotan CLEC Trumbing Desale / DST Trumbing Detail	
UNES (See Annendiv D)	
Revision Date: 05/25/00 (see	,] }

MAINTENANCE & REPAIR

Report/Measurement:	
Mak-4. Percent Repeat Troubles within 30 D	ays
Closed trouble reports on the same line/simult or a new	
of total troubles closed	vious trouble report received within 30 calendar days as a percent
Freinsions	
Trouble tickets canceled at the CLEC request	
 BST trouble reports associated with internal or adr 	ninistrative service
Customer Provided Equipment (CPE) troubles or (CLEC Equipment Trouble
Business Rules:	
Includes Customer trouble reports received within 30 d	ays of an original Customer trouble report
Calculation:	
Percent Repeat Troubles within 30 Days = (Count of cl	osed Customer Troubles where more than one trouble report was
logged for the same service line within a continuous 30	days of the reporting period) / (Total Trouble Reports Closed in
Reporting Period) X 100	
Report Structure:	
CLEC Specific	
CLEC Aggregate	
BST Aggregate	
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:
Report month	Report month
 Total Tickets (LINE_NBR) 	• Total Tickets
CLEC Company Name	BST Company Code
• Ticket Submission Date & Time (TICKET_ID)	Ticket Submission Date
• Ticket Completion Date (CMPLTN_DT)	Ticket Submission Time
• Total and Percent Repeat Trouble Reports within	Ticket Completion Date
30 Days (TOT_REPEAT)	• Ticket Completion Time
• Service Type	• Total and Percent Repeat Trouble Reports within 30 Days
• Disposition and Cause (CAUSE_CD & CAUSE_DESC)	• Service Type
CAUSE_DESC)	• Disposition and Cause (Non-Design /Non-Special Only)
• Geographie Scope	Cooperation Sectors
NOTE: Code in parentheses is the corresponding	• Geographic scope
header found in the raw data file.	
Retail Analog/Benchmark:	
CLEC Residence Resale/BST Residence Retail	
CLEC Business Resale/BST Business Retail	
CLEC Design-Resale/BST Design-Retail	
CLEC PBX, Centrex, and ISDN Resale/BST PBX, Cen	trex, and ISDN Retail
UNES-(See Appendix D)	
	Revision Date: 07/17/00 (see)

MANTENANCE & REPAIR

Report/Measurement:	
M&R-5. Out of Service (OOS) > 24 Hours	
Definition	
For Out of Service Troubles (no dial tone, cannot be ca	lled or cannot call out) the percentage of Total OOS Troubles
cleared in excess of 24 hours. (All design services are c	considered to be out of service).
Exclusions:	
Trouble Reports canceled at the CLEC request	
BST Trouble Reports associated with administrative	ve service
Customer Provided Equipment (CPE) Troubles or	CLEC Equipment Troubles.
Business Rules:	
Customer Trouble reports that are out of service and cle	eared in excess of 24 hours. The clock begins when the trouble
report is created in LMOS and the trouble is counted if	the elapsed time exceeds 24 hours.
Calculation:	
Out of Service (OOS) > 24 hours = (Total Cleared Trou	ibles OOS > 24 Hours) / Total OOS Troubles in Reporting
Period) X 100	
Report Structure:	
CLEC Specific	
BST Aggregate	
CLEC Aggregate	
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
Report Month	Report Month
Total Tickets	Total Tickets
CLEC Company Name	BST Company Code
• Ticket Submission Date & Time (TICKET_ID)	Ticket Submission Date
Ticket Completion Date (CMPLTN_DT	Ticket Submission time
Percentage of Customer Troubles out of	Ticket Completion Date
 Service > 24 Hours (OOS>24_FLAG) 	Ticket Completion Time
Service type (CLASS SVC DESC)	• Percent of Customer Troubles out of Service > 24 Hours
• Disposition and Cause (CAUSE CD &	Service type
CAUSE-DESC)	• Disposition and Cause (Non – Design/Non-Special only)
Geographic Scope	Trouble Code (Design and Trunking Services)
	Geographic Scope
NOTE: Code in parentheses is the corresponding	
header found in the raw data file.	
Retail Analog/Benchmark:	
CLEC Residence-Resale / BST Residence- Retail	
CLEC Business- Resale / BST Business-Retail	
CLEC Design-Resale / BST Design-Retail	
CLEC PBX, Centrex and ISDN Resale / BST PBX, Cen	ntrex and ISDN Retail
CLEC Trunking-Resale /BST Trunking- Retail	
UNEs – (See Appendix D)	

Revision Date: 05/12/00 (see)

MAINTENANCE & REPAIR

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Report/Measurement:
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 BST Residence and Business number)
Level of Disaggregation:
Region. CLEC/BST Service Centers and BST Repair Centers are regional.
Calculation:
Average Answer Time for BST's Repair Centers = (Time BST Repair Attendant Answers Call) – (Time of entry into
queue until ACD Selection) / (Total number of calls by reporting period)
Report Structure:
CLEC Aggregate
BST Aggregate
Data Retained Relating to CLEC Experience Data Retained Relating to BST Experience
CLEC Average Answer Time BST Average Answer Time
Retail Analog/Benchmark:
For CLEC, Average Answer Times in UNE Center and BRMC are comparable to the Average Answer Times in the BST
Repair Centers.

Revision Date: 05/25/00 (see)

BILLING

Report/Measurement:		
B-1. Invoice Accuracy		
Definition:		
This measure provides the percentage of accuracy of the billing	ng invoices rendered to CLECs during the current month.	
Exclusions:		
Adjustments not related to billing errors (e.g., credits for serv.	ice outage, special promotion credits, adjustments to satisfy	
the customer)		
The accuracy of hilling invalors delivered by BST to the CLE	Compute anable them to provide a degree of hilling accuracy	
comparative to BST hills rendered to retail customers of BST	CLECs request adjustments on hills determined to be	
incorrect. The BellSouth Billing verification process includes	s manually analyzing a sample of local hills from each hill	
neriod The hill verification process draws from a mix of diff	Ferent customer hilling options and types of service. An	
end-to-end auditing process is performed for new products an	d services. Internal measurements and controls are	
maintained on all billing processes.		
Calculation:		
Invoice Accuracy = (Total Billed Revenues during current m	onth) – (Absolute Value of Billing Related Adjustments	
during current month) / Total Billed Revenues during current	month X 100	
Report Structure:		
CLEC Specific		
CLEC Aggregate		
BST Aggregate		
Level of Disaggregation;	a set in a set of the set of the set of the provide the set of the	
Product / Invoice Type		
> Resale		
> UNE		
> Interconnection		
• Geographic Scope		
	Date Detained Delating to BST Performance	
Parat Month Perort Month	Report month	
Invoice Type	Retail Type	
Total Billed Revenue Adjustments	\sim CRIS	
• Total Bined Revenue Adjustments	> CABS	
1	Total Billed Revenue	
	Billing Related Adjustments	
Retail Analon/Benchmarker		
CLEC Invoice Accuracy is comparable to BST Invoice Accur	racy	
See Appendix D	-	
	Revision Date: 05/03/00 (dg)	

BILLING

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Report/Measurement:		
B-2. Mean Time to Deliver Invoices		
Definition:		
Bill Distribution is calculated as follows: CRIS BILLS-The r calculated by counting the Bill Period date as the first work d workdays. J/N Bills are counted in the CRIS work day catego account number (Q account) is provided from the CRIS syste	number of workdays is reported for CRIS bills. This is lay. Weekends and holidays are excluded when counting ory for the purposes of the measurement since their billing m.	
CABS BILLS-The number of calendar days is reported for C. the Bill Period date as the first calendar day. Weekends and b	ABS bills. This is calculated by counting the day following 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	ng records delivered to CLECs in an agreed upon format.	
CRIS-based invoices are measured in business days, and CAI	BS-based invoices in calendar days.	
Calculation:		
Mean Time To Deliver Invoices = Σ [(Invoice Transmission	Date) – (Close Date of Scheduled Bill Cycle)] / (Count of	
Invoices Transmitted in Reporting Period)		
Report Structure:		
CLEC Specific		
CLEC Aggregate		
BST Aggregate		
Level of Disaggregation:		
Product / Invoice Type		
> Resale		
> UNE		
Interconnection		
Geographic Scope		
> Region		
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:	
Report month	Report month	
Invoice Type	Retail Type	
Invoice Transmission Count	> CRIS	
Date of Scheduled Bill Close	> CABS	
	Invoice Transmission Count	
	Date of Scheduled Bill Close	
Retail Analog/Benchmark:		
CRIS-based invoices will be released for delivery within six (6) business days.		
CABS-based invoices will be released for delivery within eight (8) calendar days.		
CLEC Average Delivery Intervals for both CRIS and CABS Invoices are comparable to BST Average delivery for both		
systems.		
See Appendix D		

Revision Date: 05/03/00 (dg)

<u>BILLING</u>

Report/Measurement:	den series and the second s
B-3. 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 BenSouth performance. I then the accuracy of the individual usage recording	his measurement captures Data Delivery Accuracy rather
Treineigns	
None	
Business Rules:	
The accuracy of the data delivery of usage records delivered h	by BST to the CLEC must enable them to provide a degree
of accuracy comparative to BST bills rendered to their retail c	customers. If errors are detected in the delivery process,
they are investigated, evaluated and documented. Errors are of	corrected and the data retransmitted to the CLEC.
Usage Data Delivery Agence $= \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{i=1}^{n$	data packs sent during current month) - (Total number of
usage data packs requiring retransmission during current mon	th)] / (Total number of usage data packs send during
current month) X 100	
Report Structure:	
CLEC Specific	
CLEC Aggregate	
BST Aggregate	
Level of Disaggregation:	
Geographic Scope	
> Region	
Data Retained Relating to CLEC Experience:	Data Retained Relating to BS1 Performance:
• Report Month	Report month
Record Type DallSouth Becarded	• Record Type
DeliSouth Recorded Non BellSouth Recorded Image: South Recorded Image:	
Retail Analog/Renchmark:	
CLEC Usage Data Delivery Accuracy is comparable to BST	Usage Data Delivery Accuracy
See Appendix D	
	Revision Date: 02/28/00 (dg)

BILLING

Report/Measurement:
B-4. 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 BST 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 BST
messages processed and transmitted via UMDS. BellSouth delivers its own retail usage from recording location to hilling location via CMDS as well as delivering hilling data to other compariso. Timelings, Completeness and Man
Time to Deliver Usage measures are reported on the same report.
Finde to Deriver Osage measures are reported on the same report.
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 = Σ [(Total number of Recorded usage records delivered during current month that
are within thirty (30) days of the message recording date) / Σ (Total number of Recorded usage records delivered during
the current month) X 100
• CLEC Specific
• CLEC Aggregate
• DOI Aggregate
Coographia Scone
 Geographic Scope Region
Data Retained Relating to CLEC Experience:
Report Month Report month
Record Type Record Type
> BellSouth Recorded
Non BellSouth Recorded
Retail Analog/Benchmark:
CLEC Usage Data Delivery Completeness is comparable to BST Usage Data Delivery Completeness
See Appendix D

Revision Date: 02/28/00 (dg)

BILLING

Report/Measurement:		
B-5. Usage Data Delivery Timeliness		
Definition		
This measurement provides a percentage of recorded usage data (usage recorded by BST and usage recorded by other		
companies and sent to BST 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 BST messages processed and		
report		
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		
BST receives the records to the date BST distributes to the CLEC. Method of delivery is at the option of the CLEC.		
Calculation		
Usage Data Delivery Timeliness Current month = Σ (Total number of usage records sent within six (6) calendar days		
from initial recording/receipt) / Σ (Total number of usage records sent) X 100		
Report Structure:		
CLEC Aggregate		
CLEC Specific		
BST Aggregate		
Level of Disaggregation:		
Geographic Scope		
> Region		
Data Retained Relating to CLEC Experience: Data Retained Relating to BST Performance:		
Report Month Report Monthly		
Record Type Record Type		
BeilSouth Recorded Nen BeilSouth Recorded		
Datell Anelon/Renchmank		
CLEC Usage Data Delivery Timeliness is comparable to BST Usage Data Delivery Timeliness		
One source for Dentery Informets is computation to bot osage batt bentery Informets		

Revision date: 02/28/00 (dg)

BILLING

Report/Measurement		
Definition:		
This measurement provides the average time it take	s to deliver Usage Records to a CLEC. A parity measure is also	
provided showing timeliness of BST 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 appropriate CLEC. Usage data is mechanically tran Method of delivery is at the option of the CLEC	the average number of days it takes BST to deliver Usage data to the ismitted or mailed to the CLEC data processing center once daily.	
Calculation:		
Mean Time to Deliver Usage = Σ (Volume of Rec	cords Delivered X estimated number of days to deliver) / Total	
Record Volume Delivered.		
Note: Any usage record falling in the 30+ day inter	rval will be added using an average figure of of 31.5 days.	
Report Structure:		
CLEC Aggregate		
CLEC Specific		
BST Aggregate		
Level of Disaggregation:		
Geographic Scope		
> Region		
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:	
Report Month	Report Monthly	
Record Type	Record Type	
BellSouth Recorded		
Non-BellSouth Recorded		
Retail Analog/Benchmark:		
Mean Time to Deliver Usage to CLEC is comparable to Mean Time to Deliver Usage to BST		
See Appendix D		

Revision Date: 05/03/00 (dg)

OPERATOR SERVICES AND DIRECTORY ASSISTANCE

Renaut/Massurament
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 BST customers.
Calculation
Total queue time + total calls answered
(Note: Total queue time includes time that answered calls wait in queue as well as time abandoned calls wait in queue
Danart Structura
Reported for the aggregate of BST and CLECs
 State
Level of Disaggregation:
None
Data Retained (on Aggregate Basis)
 For the items below, BST'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
Retail Analog/Benchmark:
Parity by Design
See Appendix D Revision Data: 07/10/00 (ta)
Revision Date: 07/19/00 (tg)

OPERATOR SERVICES AND DIRECTORY ASSISTANCE

Report/Measurement:
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 "X" seconds. The number of seconds represented
by "X" is thirty, except where a different regulatory benchmark has been set for the Average Speed to Answer by a State
Commission.
Exclusions:
None
Business Kules:
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 elenced time from the entry of a customer call into the PollSouth call monogement system gueue
until the customer call is shandoned or transferred to BellSouth personnel assigned to handle calls for assistance. The
system makes no distinction between CLEC customers and BST 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 BST and CLECs
> State
Level of Disaggregation:
None
Data Retained (on Aggregate Basis):
• For the items below, BST'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
Retain Adding open children in the second seco
See Annendix D
Revision Date: 07/10/00 (to)

OPERATOR SERVICES AND DIRECTORY ASSISTANCE

Report/Measurement:
DA-1. Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA)
Definitionage and the same set of the same set
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 BS1 customers.
10 and 10 and 1
nrior to abandonment)
Report Structure:
Reported for the aggregate of BST and CLECs
> State
Level of Disaggregation:
None
Data Retained (on Aggregate Basis)
• For the items below, BST'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
Retail Analog/Benchmark
Parity by Design
See Appendix D
Revision Date: 07/19/00 (tg)

OPERATOR SERVICES AND DIRECTORY ASSISTANCE

Report vicasorement:
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 "X" seconds. The number of seconds represented
by "X" is twenty, except where a different regulatory benchmark has been set for the Average Speed to Answer by a
State Commission.
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 BST 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 BST and CLECs
> State
Level of Disaggregation:
None
Data Retained (on Aggregate Basis)
• For the items below, BST'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
Retail Analog/Benchmark
Parity by Design
See Appendix D
Revision Date: 07/19/00 (tg)

<u>E911</u>

Report/Measurement.
E-1. Timeliness
Definition:
Measures the percent of batch orders for E911 database updates (to CLEC resale and BS1 retain records) processed
successfully within a 24-nour period.
ETCIDSIODS2
• 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 (BST's E911 vehicle) receives
Egil files containing batch orders extracted from BST's service Order Control System (SOCS). Flocessing stops when SOC loads the individual records to the E011 database. The system makes no distinction between CLEC result records
and RST retail records
Calculation:
E911 Timelines = Σ (Number of batch orders processed within 24 hours +Total number of batch orders submitted) x 100
Report Structure:
Reported for the aggregate of CLEC resale updates and BST retail updates
> State
➢ Region
Level of Disaggregation;
None
Data Retained
Report month
Aggregate data
Retail Analog/Benchmark:-
Parity by Design
See Appendix D

Revision Date: 05/10/00 (tg)

<u>E911</u>

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Report/Measurement:
E-1. Accuracy
Definition:
Measures the percent of E911 telephone number (TN) record updates (to CLEC resale and BST retail records) processed successully for E911.
Excinsions:
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 (BST's E911 vendor) receives E911 files containing telephone number (TN)
records extracted from BST's Service Order Control System (SOCS). The system makes no distinction between CLEC
resale records and BS1 retail records.
Calculation:
E911 Accuracy = Σ (Number of record individual updates processed with no errors +Total number of individual record
updates) x 100
Report Structures-
Reported for the aggregate of CLEC resale updates and BST retail updates
> State
> Region
Level of Disaggregation:
None
Data Retained
Report month
Aggregate data
Ketail Analog/Benchmark:
Parity by Design
See Appendix D

Revision Date: 05/10/00 (tg)

<u>E911</u>

Report/Measurement:
E-3. Mean Interval
Definition:
Measures the mean interval processing of E911 batch orders (to update CLEC resale and BST retail records).
Exclusions:
Any resale order canceled by a CLEC
Facilities-based CLEC orders
Business Roles:
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 is 4-hour increments up to and beyond 24 hours. The system
makes no distinction between CLEC resaie records and BS1 retail records.
Calculation:
E911 Mean Interval = Σ (Date and time of batch order completion – Date and time of batch order submission) ÷
(Number of batch orders completed)
Report Structure:
Reported for the aggregate of CLEC resale updates and BST retail updates
> State
> Region
Level of Disaggregation:
None
Data Recained
• Report month
Aggregate data
Retail Analog/Benchmarki
Parity by Design

Revision Date: 05/15/00 (tg)

TRUNK GROUP PERFORMANCE

Report/Measure	ment			
TGP-1. Tru	nk Group Performance-Age	pregate		
Definition:				
The Trunk Group Performance report displays, over a reporting cycle, aggregate, weighted average trunk group blocking data for each hour of each day of the reporting cycle, for both CLEC affecting and BST affecting trunk groups.				
Exclusions:	ung for which wild date is not			
Trunk Ord Duplicate	trunk group information	available for an entire study period		
	dunk group mormation			
Desinessitures				
The purpose of the Trunk Group Performance Report is to provide trunk blocking measurements on CLEC and BST trunk groups for comparison only. It is not the intent of the report that it be used for network management and/or engineering.				
Monthly Weight	ed Average Blocking:			
The report	ing cycle includes both business	and non-business days in a calendar month.		
 Monthly av 	verage blocking values are calcu	lated for each trunk group for each of the 24 time consistent hours across		
a reporting	cycle.			
Aggregate Mont	hly Blocking:			
Used to con	mpare aggregate blocking across	s trunk groups which terminate traffic at CLEC points of presence versus		
BellSouth	switches.	ated for each hour of the day across all trank groups assigned to a		
 Aggregate category 	monumy blocking data is calcula	area for each nour of the day across an trunk groups assigned to a		
Trunk Categoriz	ation:			
• 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 Landem	Denbouun Tandem		
BellSouth Affecting Categories:				
	<u>Point A</u>	<u>Point B</u>		
Category 9:	BellSouth End Office	BellSouth End Office		

TRUNK GROUP PERFORMANCE - (TGP-1. Trunk Group Performance-Aggregate - Continued)

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 th aggregated over all trunk groups within each assi	e blocked and attempted calls from each trunk group are separately igned category.	
• The total blocked calls is divided by the total call	l attempts within a group to calculate an aggregate monthly	
blocking for each assigned group.		
• The result is an aggregate monthly average block	king 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		
BST Aggregate		
> State		
.evel of Disaggregation:		
Trunk Group		
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience	
• Report Month	Report Month	
Total Trunk Groups	Total Trunk Groups	
 Number of Trunk Groups by CLEC 	• Aggregate Hourly blocking per trunk group	
 Hourly blocking per trunk group 	Hourly usage per trunk group	
 Hourly usage per trunk group 	Hourly call attempts per trunk group	
Hourly call attempts per trunk group		
Retail Analog/Benchmark:		
Any 2 hour period in 24 hours where CLEC blockage	exceeds BST blockage by more then 0.5% = a miss using trunk	

groups 1,3,4,5,10,16 for CLECs and 9 for BST.

Revision Date: 6/23/00 (tm)
TRUNK GROUP PERFORMANCE

Report/Measurement: TCP.2. Trunk Crown Porformance CLEC Specific			
Definition			
The Trunk Group Performance report displays, over a reporting cycle, aggregate, weighted average trunk group blocking data for each hour of each day of the reporting cycle, for both CLEC affecting and BST affecting trunk groups.			
Trunk Groups for which valid data is not available for an entire study period			
Duplicate trunk group information			
Business Rulea:			
The purpose of the Trunk Group Performance Report is to provide trunk blocking measurements on CLEC and BST trunk groups for comparison only. It is not the intent of the report that it be used for network management and/or engineering.			
Monthly Weighted 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 acros 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			
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 			
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 Landem CLEC Switch			
Category 10: BellSouth End Office BellSouth Local Tandem			
Category 16: BellSouth Tandem BellSouth Tandem			
BellSouth Affecting Categories:			
<u>Point A</u> <u>Point B</u>			
Category 9: BellSouth End Office BellSouth End Office			

TRUNK GROUP PERFORMANCE - (TGP-1. Trunk Group Performance-Aggregate - Continued)

Cancerateori		
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 bloc	cking value for each of the 24 hours by group.	
• The difference between the CLEC and BellSout	th affecting trunk groups are also calculated for each hour.	
Report Structure:		
CLEC Specific		
> State		
evel of Disaggregation:		
Trunk Group		
Data Retained Relating to CLEC Experience	Data Retained Relating to DST Experience	
Report Month	Report Month	
Total Trunk Groups	Total Trunk Groups	
 Number of Trunk Groups by CLEC 	 Aggregate Hourly blocking per trunk group 	
 Hourly blocking per trunk group 	 Hourly usage per trunk group 	
 Hourly usage per trunk group 	 Hourly call attempts per trunk group 	
Hourly call attempts per trunk group		
Retail Analog/Benchmark		
Any 2 hour period in 24 hours where CLEC blockag	e exceeds BST blockage by more then 0.5% = a miss using trunk	
groups 1,3,4,5,10,16 for CLECs and 9 for BST.		

Revision Date: 6/23/00 (tm)

TRUNK GROUP PERFORMANCE

Report/Measurement:			
TGP-3. Trunk Group Service Report			
Definition			
A report of the percent blocking above the Measured Blocking Threshold (MBT) on all final trunk groups between			
CLEC Points of Termination and BST end offices or tandems.			
Exclusions:			
• Frunk groups for which valid traffic data is not availab	le		
High use trunk groups			
Traffic trunking data measurements are validated and proce	used by the Network Information Warehouse (AIWA) on an		
hourly basis for Business and non-business Days. The tra	ffic load sets including offered load and observed blocking		
ratio (calls blocked divided by calls attempted), are average	d for the entire report period, and the busy hour is selected.		
The busy hour average data for each trunk group is captured	d for reporting purposes. Although all trunk groups are		
available for reporting, the report highlights those trunk gro	ups with blocking greater than the Measured Blocking		
Threshold (MBT) and the number of consecutive monthly r	eports that the trunk group blocking has exceeded the MBT.		
The MBT for CTTG is 2% and the MBT for all other trunk	groups is 3%.		
Colculation			
Measured blocking = (Total number of blocked calls) / (Tot	tal number of attempted calls) X 100		
Report Structure:			
• BST Aggregate			
> CTTG			
> Local			
CLEC Aggregate			
BST Administered CLEC Trunk			
CLEC Administered CLEC Trunk			
CLEC Specific BST Administered CLEC Trunk			
CLEC Administered CLEC Trunk			
Level of Disaggregation:			
State	annus a chuir ann an ann an ann ann ann ann ann ann		
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:		
Report month	Report month		
Total trunk groups	 Total trunk groups 		
 Total trunk groups for which data is available 	Total trunk groups for which data is available		
• Trunk groups with blocking greater than the MBT • Trunk groups with blocking greater than the MBT			
• Percent of trunk groups with blocking greater than • Percent of trunk groups with blocking greater than the MDT			
CLEC Trunk Blockage/BST Trunk Blockage			
See Appendix D			

Revision Date: 07/26/00 (tm)

TRUNK GROUP PERFORMANCE

Report/Measurement:			
TGP-4. Trunk Group Service Detail			
Definition:			
A detailed list of all final trunk groups between CLEC Points of Presence and BST end offices or tandems, and the			
actual blocking performance when the blocking exceeds the Measured Blocking Threshold (MBT) for the trunk groups.			
Exclusions:			
Trunk groups for which valid traffic data is not available			
High use trunk groups			
Business Rules:			
Traffic trunking data measurements are validated and proce	essed by the Network Information Warehouse (NIW), on an		
hourly basis for Business and non-business Days. The training	ffic load sets, including offered load and observed blocking		
ratio (calls blocked divided by calls attempted), are average	ed for the entire reportperiod, and the busy hour is selected.		
The busy hour average data for each trunk group is capture	d for reporting purposes. Although all trunk groups are		
available for reporting, the report highlights those trunk gro	oups with blocking greater than the Measured Blocking		
Threshold (MBT) and the number of consecutive monthly r	reports that the trunk group blocking has exceeded the MBT.		
The MBT for CTTG is 2% and the MBT for all other trunk	groups is 3%.		
Calculation:	and the second state of the se		
Measured blocking = (Total number of blocked calls) / (Total	tal number of attempted calls) X 100		
Report Structure			
BST Specific/CLEC Specific			
 Dat Specific Children Specific Traffic Identity 			
> TGSN			
> Tandem			
End Office			
Description			
Observed Blocking			
Busy Hour			
Number Trunks			
Valid study days			
> Number reports			
> Remarks			
Level of Disaggregation:	ande sone en sensitivitation de la constance de		
Data Actained Actaing to CLEC Experience.	Parat month		
Report monut	Total trunk groups		
• 1 otal trunk groups • Total trunk groups for which data is available • Total trunk groups for which data is available			
• I otal trunk groups for which data is available • I otal trunk groups for which data is available • Trunk groups with blocking greater than the MPT			
Irunk groups with blocking greater than Percent of trunk groups with blocking greater than			
• Percent of trunk groups with blocking greater than the MBT • Percent of trunk groups with blocking greater than the MBT			
• Traffic identify, TGSN, end points, description, busy			
hour, valid study days, number reports hour, valid study days, number reports			
Retail Analog/Benchmark:			
CLEC Trunk Blockage/BST Blockage			
See Appendix D			

Revision Date: 07/26/00 (tm)

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COLLOCATION

Report/Measurement:
C-1. Average Response Time
Definition:
Measures the average time (counted in business days) from the receipt of a complete and accurate collocation application
(including receipt of application fees) to the date BellSouth responds in writing.
Exclusions:
Any application cancelled by the CLEC
Business Rules:
The clock starts on the date that BST receives a complete and accurate collocation application accompanied by the
appropriate application fee. The clock stops on the date that BST returns a response. The clock will restart upon receipt
of changes to the original application request.
Calculation
Average Response Time = Σ [(Request Response Date) – (Request Submission Date)] / Count of Responses Returned
within Reporting Period.
Report Structure:
Individual CLEC (alias) aggregate
Aggregate of all CLECs
Level of Disaggregations
 State, Region and further geographic disaggregation as required by State Commission Order
(e.g. Metropolitan Service Area – MSA)
• Virtual-Initial
• Virtual-Augment
Virtual-Combined
Physical-Initial
Physical-Augment
Physical-Combined
Caged/Cageless (under development)
Data Retained
Report period
Aggregate data
Retail Analog/Benchmark.
See Appendix D

Revision Date: 07/19/00 (tg)

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COLLOCATION

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COLLOCATION
Report Measurement:
C-2. Average Arrangement Time
Definition:
(including respirit of environmists fee) to the date BST completes the collection environment and patifies the CLEC
(including receipt of appropriate ree) to the date BST completes the conocation arrangement and notifies the CLEC.
A nu Done Fide firm order cancelled by the CLEC
 Any Bona Flue finition of the canceled by the CLEC Time for BST to obtain nermits (applies in AL GA KY LA MS NC SC and TN)
Rusinger Dulari
The clock starts on the date that BST receives a complete and accurate Bone Fide firm order accompanied by the
appropriate fee. The clock stops upon submission of the permit request and restarts upon receipt of the approved permit.
Changes (affecting the provisioning interval or capital expenditures) that are submitted while provisioning is in progress
may alter the completion date. The clock stops on the date that BST completes the collocation arrangement and notifies
the customer.
Calculation:
Average Arrangement Time = Σ [(Date Collocation Arrangement is Complete) – (Date Order for Collocation
Arrangement Submitted)] / Total Number of Collocation Arrangements Completed during Reporting Period.
Report Structure:
Individual CLEC (alias) aggregate
Aggregate of all CLECs
Level of Disaggregation:
State, Region and further geographic disaggregation as required by State Commission Order
(e.g. Metropolitan Service Area – MSA)
• Virtual-Initial
• Virtual-Augment
• Virtual-Combined
Physical-Initial Discipal Assessment
• Physical-Augment
Physical-Combined Cage/Cageloss (under development)
Report period
Agoregate data
Retail Analog Henchmark:
See Appendix D

Revision Date: 07/19/00 (tg)

COLLOCATION

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Color Fortention of Due Dates Missed Measures the percent of missed due dates for collocation arrangements. Trelinition: Any Bona File firm order cancelled by the CLEC Time for BST to obtain permits Percent Due Dates Missed is the percent of total collocation arrangements which BST is unable to complete by end of the ILEC committed due date. The clock starts on the date that BST receives a complete and accurate Bona File firm order accompanied by the appropriate fee. 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 = Σ (Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. ReportStructure: • • • Aggregate of all CLECs Jereviol Disaggregation: • • • State, Region and further geographic disaggregation as required by State Commission Order (c.g. Metropolitan Service Area – MSA) • Virtual-Initial • Virtual-Augment • Virtual-Combined • Physical-Augment • Physical-Initial • Physical-Combined • Report period • Cage/Cageless (under development) DataRetained • Report period • Aggregate data • Real valog/Hernhamarte • L00K (wireed Due Deter.	Report/Measurement:
Measures the percent of missed due dates for collocation arrangements. Exclusions: • Any Bona Fide firm order cancelled by the CLEC • Time for BST to obtain permits Percent Due Dates Missed is the percent of total collocation arrangements which BST is unable to complete by end of the ILEC committed due date. The clock starts on the date that BST receives a complete and accurate Bona Fide firm order accompanied by the appropriate fee. The arrangement is considered a missed due date if it is not completed on or before the committed due date. Culculation: % of Due Dates Missed = Σ (Number of Completed Orders that were not completed w/l ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Structure: • Individual CLEC (alias) aggregate • Aggregate of all CLECs Level of Disaggregation: • State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) • Virtual-Initial • Virtual-Combined • Physical-Augment • Physical-Combined • Physical-Combined • Report greate data Resort period • Aggregate data Retained • Report period • Aggregate data	Definition
TextIssions: • Any Bona Fide firm order cancelled by the CLEC • Time for BST to obtain permits Dustinest Rules: Percent Due Dates Missed is the percent of total collocation arrangements which BST is unable to complete by end of the ILEC committed due date. The clock starts on the date that BST receives a complete and accurate Bona Fide firm order accompanied by the appropriate fee. 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 = Σ (Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Structure: • Individual CLEC (alias) aggregate • Aggregate of all CLECs Level of Diaggregation: • State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) • Virtual-Augment • Virtual-Combined • Physical-Augment • Physical-Combined • Report gregate data • Report end • Report of Alugement • Virtual-Augment • Virtual-Combined • Physical-Combined • Report period • Cage/Cageless (under development) Data Retained	Measures the percent of missed due dates for collocation arrangements
 Any Bona Fide firm order cancelled by the CLEC Time for BST to obtain permits Huliness Rules: Percent Due Dates Missed is the percent of total collocation arrangements which BST is unable to complete by end of the ILEC committed due date. The clock starts on the date that BST receives a complete and accurate Bona Fide firm order accompanied by the appropriate fee. The arrangement is considered a missed due date if it is not completed on or before the committed due date. Cislentation: % of Due Dates Missed = ∑ (Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Structure: Individual CLEC (alias) aggregate Aggregate of all CLECs Level of Disaggregation: State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) Virtual-Lombined Virtual-Lombined Physical-Initial Physical-Initial Physical-Mugment Physical-Combined Cage/Cageless (under development) Data Retained Report period Aggregate data Report period Report period Report period Report period Physical-Durbined Physical-Combined Cage/Cageless (under development) 	Exclusions:
 Time for BST to obtain permits Businest Rules: Percent Due Dates Missed is the percent of total collocation arrangements which BST is unable to complete by end of the ILEC committed due date. The clock starts on the date that BST receives a complete and accurate Bona Fide firm order accompanied by the appropriate fee. The arrangement is considered a missed due date if it is not completed on or before the committed due date. Calkulation % of Due Dates Missed = 2 (Number of Completed Orders that were not completed w/l ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Stucture: Individual CLEC (alias) aggregate Aggregate of all CLECs Levelof Diaggregation: State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) Virtual-Initial Virtual-Combined Physical-Initial Physical-Combined Cage/Cageless (under development) Data Retained Report period Aggregate data Report period Report period See Appendix D (100, Missed TLECS) 	Any Bona Fide firm order cancelled by the CLEC
Businest Rules: Percent Due Dates Missed is the percent of total collocation arrangements which BST is unable to complete by end of the ILEC committed due date. Calculation: % of Due Dates Missed = Σ (Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Structure: • Individual CLEC (alias) aggregate • Aggregate of all CLECs Individual CLEC (alias) aggregate • State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) • Virtual-Initial • Virtual-Augment • Physical-Initial • Physical-Combined • Physical-Combined • Physical-Combined • Report Sequence • Report period • Virtual-Combined • Virtual-Combined • Physical-Combined • Physical-Combined • Report period • Report period • Aggregate data Recail Analog/Benchmarks	Time for BST to obtain permits
Percent Due Dates Missed is the percent of total collocation arrangements which BST is unable to complete by end of the ILEC committed due date. The clock starts on the date that BST receives a complete and accurate Bona Fide firm order accompanied by the appropriate fee. The arrangement is considered a missed due date if it is not completed on or before the committed due date. Calkulation: % of Due Dates Missed = Σ (Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Structure: • Individual CLEC (alias) aggregate • Aggregate of all CLECs Level of Disaggregation: • Virtual-Initial • Virtual-Augment • Virtual-Combined • Physical-Initial • Physical-Combined • Report period • Report period • Mater date • Virtual-Augment • Virtual-Combined • Physical-Initial • Physical-Combined • Report period • Report period • Aggregate data	Business Rules:
 the ILEC committed due date. The clock starts on the date that BST receives a complete and accurate Bona Fide firm order accompanied by the appropriate fee. The arrangement is considered a missed due date if it is not completed on or before the committed due date. Caliculation: % of Due Dates Missed = Σ (Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Structura: Individual CLEC (alias) aggregate Aggregate of all CLECs Leval of Disa garegation: State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) Virtual-Initial Virtual-Combined Physical-Initial Physical-Combined Physical-Combined Report period Aggregate data Report period Aggregate data 	Percent Due Dates Missed is the percent of total collocation arrangements which BST is unable to complete by end of
order accompanied by the appropriate fee. 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 = ∑ (Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Structure: Individual CLEC (alias) aggregate Aggregate of all CLECs Level of Disaggregation: State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) Virtual-Initial Virtual-Augment Virtual-Combined Physical-Augment Physical-Augment Physical-Combined Cage/Cageless (under development) Data Retained Report period Aggregate data Retail Analog/Benchmark: See Appendix D	the ILEC committed due date. The clock starts on the date that BST receives a complete and accurate Bona Fide firm
before the committed due date. Cikulationi % of Due Dates Missed = ∑ (Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Structure: Individual CLEC (alias) aggregate Aggregate of all CLECs Level of Disaggregation: State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) Virtual-Initial Virtual-Initial Virtual-Combined Physical-Lugment Physical-Lugment Physical-Lugment Physical-Combined Cage/Cageless (under development) Diat Retrained Report period Aggregate data Retail Analog/Benchmark: See Appendix D	order accompanied by the appropriate fee. The arrangement is considered a missed due date if it is not completed on or
Calculation: % of Due Dates Missed = Σ (Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Structure: • Individual CLEC (alias) aggregate • Aggregate of all CLECs Level of Disaggregation: • State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) • Virtual-Initial • Virtual-Combined • Physical-Initial • Physical-Augment • Physical-Combined • Cage/Cageless (under development) Data Retained • Report period • Aggregate data	before the committed due date.
% of Due Dates Missed = ∑ (Number of Completed Orders that were not completed w/I ILEC Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X 100. Report Structure: Individual CLEC (alias) aggregate Aggregate of all CLECs Level of Disaggregation: State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) Virtual-Initial Virtual-Augment Virtual-Combined Physical-Initial Physical-Augment Physical-Combined Cage/Cageless (under development) Data Retained Report period Aggregate data Retail Aaslog/Benchmark: See Appendix D < 10% Miscad Due Data;	Calculation:
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Revision Date: 07/19/00 (tg)

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Service Performance Measurements And Enforcement Mechanisms

1. <u>Scope</u>

- 1.1 This Attachment includes Enforcement Measurements with corresponding Enforcement Mechanisms applicable to this Agreement. All Exhibits are located on the BellSouth website at https://pmap.bellsouth.com/help.cfm.
- 1.2 If the Commission issues an order mandating certain service performance measurements and associated remedies, that order will supercede this Attachment on the effective date of the order.

2. <u>Reporting</u>

- 2.1 In providing services pursuant to this Agreement, BellSouth will report its performance to CLEC-1 in accordance with BellSouth's Service Quality Measurements, which are contained in this Attachment as Exhibit A and in accordance with BellSouth's Enforcement Measurements, which are contained in Exhibit B.
- 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 through some electronic medium to be determined by BellSouth. BellSouth will also provide electronic access to the raw data underlying the performance measurements. Within thirty (30) days of execution of this Agreement, BellSouth will provide a detailed session of instruction to CLEC-1 regarding access to the reports and to the raw data as well as the nature of the format of the data provided.

3. Modifications to Measurements

3.1 Service Quality Measurements

- 3.1.1 BellSouth will update the Service Quality Measurements contained in Exhibit A each calendar quarter. BellSouth will not delete any Service Quality Measurement without prior written consent of CLEC-1. CLEC-1 may provide input to BellSouth regarding any suggested additions, deletions or other modifications to the Service Quality Measurements. BellSouth will provide notice of all changes to the Service Quality Measurements via BellSouth's internet 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 Service Quality Measurements. BellSouth will make all such changes to the Service Quality Measurements pursuant to Section 16.5 of the General Terms and Conditions of this Agreement,

incorporated herein by reference. Nothing herein shall preclude either party from participating in any proceeding involving BellSouth's Service Quality Measurements or from advocating that those Measurements be modified from those contained herein.

3.1.3 Notwithstanding any other provision of this Agreement, in the event a dispute arises regarding the modification or amendment of the Service Quality Measurements, the parties will refer the dispute to the Commission.

3.2 Enforcement Measurements and Statistical Test

- 3.2.1 In order for BellSouth to accurately administer the Enforcement Measurements contained in Exhibit B, the Enforcement Measurements shall be modified or amended only if BellSouth determines such modification or amendment is necessary. However, BellSouth will not delete any Enforcement Measurement without prior written consent of CLEC-1. BellSouth will notify CLEC-1 of any such modification or amendment to the Enforcement Measurements via BellSouth's internet 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 the Enforcement Measurements and/or Statistical Test. BellSouth will make all such changes to the Enforcement Measurements and/or Statistical Test pursuant to Section 16.5 of the General Terms and Conditions of this Agreement, incorporated herein by reference. Nothing herein shall preclude either party from participating in any proceeding involving the Enforcement Measurements 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 Agreement, in the event a dispute arises regarding the modification or amendment of the Enforcement Measurements and/or Statistical Test, the parties will refer the dispute to the Commission.

4. Enforcement Mechanisms

4.1 <u>Purpose</u>

This section establishes meaningful and significant enforcement mechanisms voluntarily provided by BellSouth to verify and maintain compliance between BellSouth and CLEC-1's operations as well as to maintain access to Operational Support System (OSS) functions. This section provides the terms and conditions for such self-effectuating enforcement mechanisms. To the extent the FCC issues an order authorizing BellSouth to provide interLATA telecommunications service under section 271 of the Act that contains enforcement mechanisms that deviate from those contained herein, BellSouth and CLEC-1 agree to amend this Attachment to conform to the FCC's order.

4.2 <u>Effective Date</u>

The Enforcement Mechanisms set forth in this Attachment 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 BellSouth interLATA authority.

4.3 <u>Definitions</u>

- 4.3.1 <u>Enforcement Measurement Elements</u> means the performance measurements set forth in Exhibit B, and incorporated herein by this reference.
- 4.3.2 <u>Enforcement Measurement Benchmark</u> means a competitive level of performance negotiated by BellSouth used to compare the performance of BellSouth and CLEC-1 where no analogous process, product or service is feasible. See Exhibit B.
- 4.3.3 <u>Enforcement Measurement Compliance means comparing</u> performance levels provided to BellSouth retail customers with performance levels provided by BellSouth to the CLEC customer, as set forth in Exhibit C, and incorporated herein by this reference.
- 4.3.4 <u>Test Statistic and Balancing Critical Value</u> is the means by which enforcement will be determine using statistically valid equations. See Exhibit C.
- 4.3.5 <u>Cell</u> is the point (below the wire center level) 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 value. See Exhibit C.
- 4.3.6 <u>Affected Volume</u> means that proportion of the total impacted CLEC-1 volume or CLEC Aggregate volume for which remedies will be paid.
- 4.3.7 <u>Parity Gap</u> refers to the incremental departure from a compliantlevel of service. (See Exhibit D). This is also referred to as "diff" in the Statistical paper (See Exhibit C).
- 4.3.8 <u>Tier-1 Enforcement Mechanisms</u> means self-executing liquidated damages paid directly to CLEC-1 when BellSouth delivers non-3 08/14/2000

compliant performance of any one of the Enforcement Measurement Elements for any month as calculated by BellSouth.

- 4.3.9 <u>Tier-2 Enforcement Mechanisms</u> means Assessments paid directly to a state Public Service Commission ("Commission") or its designee. Tier 2 Enforcement Mechanisms are triggered by three consecutive monthly failures in a quarter 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 Enforcement Measurement Element.
- 4.3.10 <u>Tier-3 Enforcement Mechanisms</u> means the voluntary suspension of additional marketing and sales of long distance services triggered by excessive repeat failures of those specific submeasures as defined in Exhibit D and incorporated herein by this reference.

4.4 Application

- 4.4.1 The application of the Tier-1, Tier-2, and Tier-3 Enforcement Mechanisms does not foreclose other legal and regulatory claims and remedies available to CLEC-1.
- 4.4.2 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.
- 4.4.3 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.
- 4.4.4 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.

4.5 <u>Methodology</u>

4.5.1 Tier-1 Enforcement Mechanisms will be triggered by BellSouth's failure to achieve Enforcement Measurement Compliance or Enforcement Measurement Benchmarks for the State for a given Enforcement Measurement Element in a given month based upon a test statistic and balancing critical value calculated by BellSouth utilizing BellSouth generated data. The method of calculation is included in Exhibit D and incorporated herein by this reference.

- 4.5.1.1 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.
- 4.5.1.2 Fee Schedule for Tier-1 Enforcement Mechanisms is shown in Table-1 located within Exhibit E and incorporated herein by this reference. Failures beyond Month 6 (as set forth in Table 1) will be subject to Month 6 fees.
- 4.5.2 Tier-2 Enforcement Mechanisms will be triggered by BellSouth's failure to achieve Enforcement Measurement Compliance or Enforcement Measurement Benchmarks for the State for given Enforcement Measurement Elements for three consecutive months in a given calendar quarter based upon a statistically valid equation calculated by BellSouth utilizing BellSouth generated data. The method of calculation is included in Exhibit D and incorporated herein by reference.
 - 4.5.2.1 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.
 - 4.5.2.2 Fee Schedule for Total Quarterly Tier-2 Enforcement Mechanisms is show in Table-2 included in Exhibit E and incorporated herein by this reference.
- 4.5.3 Tier-3 Enforcement Mechanisms will be triggered by BellSouth's failure to achieve Enforcement Measurement Compliance or Enforcement Measurement Benchmarks for the State for given Enforcement Measurement Elements for three consecutive months in a given calendar quarter. The method of calculation for specified submeasures is identical to the method of calculation for Tier-2 Enforcement Mechanisms as described above. The specific submeasures which are the mechanism for triggering and removing a Tier-3 Enforcement Mechanisms are described in more detail in Exhibit D and incorporated herein by this reference.

4.6 Payment of Tier-1 and Tier-2 Amounts

4.6.1 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, BellSouth shall make payment in the required amount on or before the thirtieth (30th) day following the due date of the performance measurement report for the month in which the obligation arose.

- 4.6.2 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.
- 4.6.3 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.
- 4.6.4 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.
- 4.6.5 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).

4.7 Limitations of Liability

- 4.7.1 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.
- 4.7.2 BellSouth shall not be obligated for Tier-1, Tier-2 or Tier 3 Enforcement Mechanisms for non-compliance with a performance measure if such noncompliance was the result of an act or omission by CLEC-1 that is in bad faith.
- 4.7.3 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 its contrary to any of its obligations under its contrary to any of its obligations under its 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.

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4.8 Enforcement Mechanism Caps

4.8.1 BellSouth's total liability for the payment of Tier-1 and Tier-2 Enforcement Mechanisms shall be collectively capped at \$625M per year for the entire BellSouth region as set forth below.

AL - \$54M	MS - \$44M	
FL - \$122M	NC - \$77M	
GA - \$131M	SC - \$47M	
KY - \$34M	TN - \$57M	
LA - \$59M		
R	egional Total \$625M	

- 4.8.2 If projected payments exceed the state cap, a proportional payment will be made to the respective parties.
- 4.8.3 If BellSouth's liability for the payment of Tier-1 and Tier-2 Enforcement Mechanisms exceed the caps 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.
- 4.9 Dispute Resolution
 - 4.9.1 Notwithstanding any other provision of this Agreement, any dispute regarding BellSouth's performance or obligations pursuant to this Attachment shall be resolved by the Commission.

Appendix B: Glossary of Acronyms and Terms

I A	ACD	Automatic Call Distributor A comics that music last state
	ACD	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
	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.
В	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 blifting.
	BOCRIS	Business Office Customer Record Information System - A front-end presentation manager used by BellSouth organizations to access the CRIS database.
	BOCRIS BRC	Business Office Customer Record Information System - A front-end presentation manager used by BellSouth organizations to access the CRIS database. Business Repair Center – The BellSouth Business Systems trouble receipt center which serves large business and CLEC customers.
	BOCRIS BRC BST	 Business Office Customer Record Information System - A front-end presentation manager used by BellSouth organizations to access the CRIS database. Business Repair Center – The BellSouth Business Systems trouble receipt center which serves large business and CLEC customers. BellSouth Telecommunications, Inc.
C	BOCRIS BRC BST CKTID	Business Office Customer Record Information System - A front-end presentation manager used by BellSouth organizations to access the CRIS database. Business Repair Center – The BellSouth Business Systems trouble receipt center which serves large business and CLEC customers. BellSouth Telecommunications, Inc. A unique identifier for elements combined in a service configuration
С	BOCRIS BRC BST CKTID CLEC	 Business Office Customer Record Information System - A front-end presentation manager used by BellSouth organizations to access the CRIS database. Business Repair Center – The BellSouth Business Systems trouble receipt center which serves large business and CLEC customers. BellSouth Telecommunications, Inc. A unique identifier for elements combined in a service configuration Competitive Local Exchange Carrier
С	BOCRIS BRC BST CKTID CLEC CLP	 Business Office Customer Record Information System - A front-end presentation manager used by BellSouth organizations to access the CRIS database. Business Repair Center – The BellSouth Business Systems trouble receipt center which serves large business and CLEC customers. BellSouth Telecommunications, Inc. A unique identifier for elements combined in a service configuration Competitive Local Exchange Carrier Competitive Local Provider = NC CLEC
С	BOCRIS BRC BST CKTID CLEC CLP CMDS	 Business Office Customer Record Information System - A front-end presentation manager used by BellSouth organizations to access the CRIS database. Business Repair Center – The BellSouth Business Systems trouble receipt center which serves large business and CLEC customers. BellSouth Telecommunications, Inc. A unique identifier for elements combined in a service configuration Competitive Local Exchange Carrier Competitive Local Provider = NC CLEC Centralized Message Distribution System - BellCore administered national system used to transfer specially formatted messages among companies.
С	BOCRIS BRC BST CKTID CLEC CLP CMDS COFFI	 Business Office Customer Record Information System - A front-end presentation manager used by BellSouth organizations to access the CRIS database. Business Repair Center – The BellSouth Business Systems trouble receipt center which serves large business and CLEC customers. BellSouth Telecommunications, Inc. A unique identifier for elements combined in a service configuration Competitive Local Exchange Carrier Competitive Local Provider = NC CLEC Centralized Message Distribution System - BellCore administered national system used to transfer specially formatted messages among companies. Central Office Feature File Interface - A BellSouth Operations System database which maintains Universal Service Order Code (USOC) information based on current tariffs.

Appendix B: Glossary of Acronyms and Terms – Continued

1 6		I ('I) WE I gottyygno controct fan Koetyne (servier' '''''''''''''''''''''''''''''''''''
Ĭ	COTIOSOC	COFFI somware contract for feature/service information
ł	CRIS	Customer Record Information System - The BellSouth proprietary corporate database
}		and billing system for non-access customers and services.
ł	CRSACCTS	CRIS software contract for CSR information
)	CSR	Customer Service Record
	Con	
	CTTG	Common Transport Trunk Group - Final trunk groups between BST &
		Independent end offices and the BST access tandems.
<u> </u>	DEGLON	
ען	DESIGN	Design Service is defined as any Special or Plain Old Telephone Service Order which
j	}	requires Bensoulli Design Englicering Activities
[DISPOSITION &	Types of trouble conditions, e.g. No Trouble Found, Central Office Equipment,
	CAUSE	Customer Premises Equipment, etc.
ł		
	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.
ļ	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.
		DOF (Direct Order Entry) Sunnort Application - The BellSouth Operations System
	DSAP	which assists a Service Representative or similar carrier agent in negotiating service
	DOM	provisioning commitments for non-designed services and UNEs.
l	DSAPDDI	DSAP software contract for schedule information
}	DCI	Digital Subscriber I ine
	DSL	Digital Subscriber Line
E	E911	Provides callers access to the applicable emergency services bureau by
		dialing a 3-digit universal telephone number.
ļ	EDI	Electronic Data Interchange - The computer-to-computer exchange of inter and/or intra
	DATAL DE LECT	company business documents in a public standard formal.
¹⁶	FAIAL REJECT	of the LSR has all the required fields correctly populated
l		Of the Pole und mit the reductor to reaction by holy many
ļ	FLOW-	In the context of this document, LSRs submitted electronically via the CLEC
	THROUGH	mechanized ordering process that flow through to the BST OSS without manual or
		human intervention.
]	FOC	Firm Order Confirmation - A notification returned to the CLEC confirming that the
	FUC	LSR has been received and accepted, including the specified commitment date.
F	DLETH DLR DOE DSAP DSAPDDI DSL E911 EDI FATAL REJECT FLOW- THROUGH FOC	Display Lengthy Trouble History - A history report that gives all activity on a line record for trouble reports in LMOS Detail Line Record - All the basic information maintained on a line record in LMOS, e.g. name, address, facilities, features etc. Direct Order Entry System - An internal BellSouth service order entry system used by BellSouth Service Representatives to input business service orders in BellSouth format. 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 UNEs. DSAP software contract for schedule information Digital Subscriber Line Provides callers access to the applicable emergency services bureau by dialing a 3-digit universal telephone number. Electronic Data Interchange - The computer-to-computer exchange of inter and/or intra company business documents in a public standard format. The number of LSRs that were electronically rejected from LEO, which checks to see of the LSR has all the required fields correctly populated In the context of this document, LSRs submitted electronically via the CLEC mechanized ordering process that flow through to the BST OSS without manual or human intervention. Firm Order Confirmation - A notification returned to the CLEC confirming that the LSR has been received and accepted, including the specified commitment date.

Appendix B: Glossary of Acronyms and Terms - Continued

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.
1	HALCRIS	HAL software contract for CSR information
Ī	ISDN	Integrated Services Digital Network
	IPC	Interconnection Durchosing Conter
ĸ		
Ĺ	LCSC	Local Carrier Service Center - The BellSouth center which is dedicated to handling CLEC LSRs, ASRs, and Preordering 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.
	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.
	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
	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.
	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	A 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.

Appendix B: Glossary of Acronyms and Terms - Continued

	NC	"No Circuits" - All circuits busy announcement
Ō	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
	OASISMIN	OASIS software contract for feature/service
	OASISNET	OASIS software contract for feature/service
	UASISUEF	OASIS software contract for reature/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 LSP or ASP 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.
r	PUIS	Plain Old Telephone Service
	PREDICTOR	The BellSouth Operations system which is used to administer proactive maintenance
	THEDICTOR	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
	I REORDERINO	prior to placing a service request.
		b to b
	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.
	DOTING	
	PSIMS	Product/Service Inventory Management System - A BellSouth database Operations
		System which contains availability information on switching system features and consolitions 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

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Appendix B: Glossary of Acronyms and Terms - Continued

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R	RNS	Regional Negotiation System - An internal BellSouth service order entry system used
		by Bensouth Consumer Services to input service orders in Bensouth format.
		Residence Repair Center - The BellSouth Consumer Services trouble receipt center
	RRC	which serves residential customers
		Regional Street Address Guide - The BellSouth database, which contains street
	RSAG	addresses validated to be accurate with state and local governments.
		RSAG software contract for address search
	RSAGADDR	RSAG software contract for telephone number search
	RSAGTN	
S	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.
	SOIR	Service Order Interface Record - any change effecting activity to a customer account
	Som	by service order that impacts 911/E911.
	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 Bensouth's USSS and participating CLECS.
	TN	Telephone Number
	TOTAL MANUAL	The number of LSRs which are entered electronically but require manual entering into
	FALLOUT	a service order generator.
U	UNE	Unbundled Network Element
V	VSEEM	Voluntary Self Effectuating Enforcement Mechanism
W	WTN	A unique identifier for elements combined in a service configuration
<u>X</u>		
<u>Y</u>		
Σ	l	Sum of:

Appendix C

BELLSOUTH'S 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) for each of the next five (5) years (2000 – 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.

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BST SQM Category	Measures and Sub-Metrics	<u>Resale</u> Retail Analogue	UNEs Retail Analogue	Benchmark*
<u>Pre-</u> Ordering	Percent Response Received within "X" seconds	Parit	y w/ retail where applicable	
	OSS Interface Availability			99.5%
<u>Ordering</u>	Percent Rejected Service Request			
	Kesidence Business			90%
	• UNE			80%
	Percent Rejected Service Request	Diagnostic		Diagnostic
	Reject Interval (Mechanized)			95% within 1 hrs.
	Reject Interval (Non-Mechanized and Partially Mechanized)			85% < 48 hrs.
	Firm Order Confirmation Timeliness (Mechanized)			95% within 4 hrs.
•	(Non-Mechanized & Partially Mechanized)			85% < 48 hrs.
· · · · · · · · · · · · · · · · · · ·	Speed of Answer in Ordering Center	X	X	
		COLUMN STATES STREET		
Provisioning	Mean Held Order Interval			
	Resale Residence	X		
	Resale Business	X		
	Resale Design	X		
	Resale PBX	X		
	Resale Centrex	X		
	Resale ISDN	X		
	UNE Design		Retail Design	
	UNE Non Design		Retail Residence and Business	
	UNE Loop and Port Combos		Retail Residence and Business	
	UNE 2w Loop with NP Non-Design		Retail Residence and Business	
	UNE 2w Loop without NP – Non-Design		Retail Residence and Business	_
	UNE Loop Other with NP Non-Design		Retail Residence and Business	
	UNE Loop Other without NP Non-Design		Retail Residence and Business	

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BST SQM Category	Measures and Sub-Metrics	Resale Retail Analogue	<u>UNEs</u> <u>Retail Analogue</u>	Benchmark*
Provisioning	• UNE Other Non-Design		Retail Residence and Business	
	• UNE 2w Loop with NP - Design		Retail Residence and Business	
	• UNE 2w Loop without NP - Design		Retail Residence and Business	
	• UNE Loop Other with NP – Design		Retail Design	
	• UNE Loop Other without NP – Design		Retail Design	
	• UNE Other Design		Retail Design	
	Local Interconnection Trunks	X		
	Average Jeopardy Notice Interval (Mechanized)			
	Resale Residence			95% > = 24 hrs.
	Resale Business			95% > = 24 hrs.
	Resale Design			95% > = 24 hrs.
	• Resale PBX			95% > = 24 hrs.
	Resale Centrex			95% > = 24 hrs.
	Resale ISDN			95% > = 24 hrs.
	• UNE Design			95% > = 24 hrs.
	• UNE Non-Design			95% > = 24 hrs.
	UNE Loop and Port Combos			95% > = 24 hrs.
	UNE 2w Loop with NP – Non-Design			95% > = 24 hrs.
	UNE 2w Loop without NP – Non-Design			95% > = 24 hrs.
	UNE Loop Other with NP Non-Design			95% > = 24 hrs.
	UNE Loop Other without NP Non-Design			95% > = 24 hrs.
	UNE Other Non-Design			95% > = 24 hrs.
	UNE 2w Loop with NP – Design			95% > = 24 hrs.
	UNE 2w Loop without NP – Design			95% > = 24 hrs.
	UNE Loop Other with NP – Design			95% > = 24 hrs.
	UNE Loop Other without NP – Design			95% > = 24 hrs.
	UNE Other Design			95% > = 24 hrs.
	Local Interconnection Trunks			95% > = 24 hrs.

BST SQM	Measures and Sub-Metrics	Resale	UNES	Benchmark*
Category		Analogue	Netan Analogue	
Provisioning	% of Orders given jeopardy notice (Mechanized)			
	Resale Residence	X		
	Resale Business	X		
	Resale Design	X		
	• Resale PBX	X		
	Resale Centrex	X		
	Resale ISDN	X		
······	UNE Loop and Port Combos		Retail Residence and Business	
	UNE Design		Retail Design	
	UNE Non-Design		Retail Residence and Business	
	UNE 2w Loop with NP – Non-Design		Retail Residence and Business	
	UNE 2w Loop without NP – Non-Design		Retail Residence and Business	
	UNE Loop Other with NP Non-Design		Retail Residence and Business	
	UNE Loop Other without NP Non-Design		Retail Residence and Business	
	UNE Other Non-Design		Retail Residence and Business	
	UNE 2w Loop with NP - Design		Retail Residence and Business	
	UNE 2w Loop without NP - Design		Retail Residence and Business	
	 UNE Loop Other with NP - Design 		Retail Design	
	UNE Loop Other without NP - Design		Retail Design	
	UNE Other Design		Retail Design	
	Interconnection Trunks	X		
	Percent Missed Installation Appointments			
	Resale Residence	X		
	Resale Business	X		
	• Resale Design	X		
<u>├</u> ────	• Resale PBX	X		
	Resale Centrex	X		
	Resale ISDN	X		·
	UNE Loop and Port Combos		Retail Residence and Business	

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BST SQM	Measures and Sub-Metrics	<u>Resale</u> Retail	UNEs <u>Retail Analogue</u>	Benchmark*
		Analogue		
<u>Provisioning</u>	UNE Design		Retail Design	
	UNE Non-Design		Retail Residence and Business	
	UNE 2w Loop with NP – Non-Design		Retail Residence and Business	
	• UNE 2w Loop without NP – Non-Design		Retail Residence and Business	
	 UNE Loop Other with NP Non-Design 		Retail Residence and Business	
	UNE Loop Other without NP Non-Design		Retail Residence and Business	
	UNE Other Non-Design		Retail Residence and Business	
	UNE 2w Loop with NP – Design		Retail Residence and Business	
	UNE 2w Loop without NP - Design		Retail Residence and Business	
	UNE Loop Other with NP Non-Design		Retail Design	
	UNE Loop Other without NP Non-Design		Retail Design	v
	UNE Other Design		Retail Design	
	Local Interconnection Trunks	X		
	Order Completion Interval			
· · · · · · · · · · · · · · · · · · ·	Resale Residence	X		
	Resale Business	X		
	Resale Design	X		
	Resale PBX			
	Resale Centrex	X		
·	Resale ISDN	X		
<u> </u>	UNE Loop and Port Combos		Retail Residence and Business	
	UNE Design		Retail Design	
	UNE Non-Design		Retail Residence and Business	
	UNE 2w Loop with NP – Non-Design		Retail Residence and Business	
<u>}</u>	UNE 2w Loop without NP – Non-Design		Retail Residence and Business	
— ————	• UNE Loop Other with NP Non-Design	—	Retail Residence and Business	
	• UNE Loop Other without NP Non-Design		Retail Residence and Rusiness	<u> </u>
	UNE Other Non-Design		Retail Residence and Business	

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BST SQM Category	Measures and Sub-Metrics	Resale Retail Analogue	UNEs Retail Analogue	Benchmark*
Provisioning	• UNE 2w Loop with NP - Design		Retail Residence and Business	
	UNE 2w Loop without NP - Design		Retail Residence and Business	
	UNE Loop Other with NP - Design		Retail Design	
	• UNE Loop Other without NP - Design		Retail Design	
	UNE Other Design		Retail Design	
	Local Interconnection Trunks	X		
	Average Completion Notice Interval – Resale POTS (Mech)			
	Resale Residence	Х		
	Resale Business	X		
	Resale Design	<u> </u>		
	Resale PBX	X		
	Resale Centrex	X		
	Resale ISDN	X		
	UNE Loop and Port Combos		Retail Residence and Business	
	UNE Design		Retail Design	
	UNE Non-Design		Retail Residence and Business	
	UNE 2w Loop with NP – Non-Design		Retail Residence and Business	
	UNE 2w Loop without NP – Non-Design		Retail Residence and Business	
	UNE Loop Other with NP Non-Design		Retail Residence and Business	
	UNE Loop Other without NP Non-Design		Retail Residence and Business	
	UNE Other Non-Design		Retail Residence and Business	
	UNE 2w Loop with NP - Design		Retail Residence and Business	
	UNE 2w Loop without NP - Design		Retail Residence and Business	
	UNE Loop Other with NP - Design		Retail Design	
	UNE Loop Other without NP - Design		Retail Design	
	UNE Other Design		Retail Design	
	Local Interconnection Trunks	X		

BST SQM Category	Measures and Sub-Metrics	Resale Retail Analogue	UNEs Retail Analogue	Benchmark*
Provisioning	Percent Provisioning Troubles within 30 Days			
	Resale Residence	X		
	Resale Business	X		
	◆ Resale Design	X		
	Resale PBX	X		
	Resale Centrex	X		
	Resale ISDN	X		
	UNE Loop and Port Combos		Retail Residence and Business	
	• UNE Design		Retail Design	
	UNE Non-Design		Retail Residence and Business	
	UNE 2w Loop with NP – Non-Design		Retail Residence and Business	
	UNE 2w Loop without NP – Non-Design		Retail Residence and Business	
	UNE Loop Other with NP Non-Design		Retail Residence and Business	
	 UNE Loop Other without NP Non-Design 		Retail Residence and Business	
	UNE Other Non-Design		Retail Residence and Business	
	UNE 2w Loop with NP - Design		Retail Residence and Business	
	UNE 2w Loop without NP - Design		Retail Residence and Business	
	UNE Loop Other with NP - Design		Retail Design	
	UNE Loop Other without NP - Design		Retail Design	
· · · ·	UNE Other Design		Retail Design	
	Local Interconnection Trunks	X		
	Total Service Order Cycle Time	Diagnostic	Diagnostic	Diagnostic
·	Resale Residence	X		
· · · · · · · · · · · · · · · · · · ·	Resale Business	X		
	Resale Design	X		
	Resale PBX	X		
· · · · · · · · · · · · · · · · · · ·	Resale Centrex	X		
·	Resale ISDN	X		

BellSouth Service Quality Measurements Plan APPENDIX D Analogs and Benchmarks

BOD SAM		Resale	UNIES	Benchmark*
BOLSUM	Measures and Sub-Mictrics	Retail	Retail Analogue	
caugury		Analogue		
Provisioning	UNE Design		Retail Design	
	UNE Non-Design		Retail Residence and Business	
	UNE Loop and Port Combos		Retail Residence and Business	
	 UNE 2w Loop with NP – Non-Design 		Retail Residence and Business	
	UNE 2w Loop without NP – Non-Design		Retail Residence and Business	
	UNE Loop Other with NP Non-Design		Retail Residence and Business	
	 UNE Loop Other without NP Non-Design 		Retail Residence and Business	
	UNE Other Non-Design		Retail Residence and Business	
	 UNE 2w Loop with NP - Design 		Retail Residence and Business	
	UNE 2w Loop without NP - Design		Retail Residence and Business	
	UNE Loop Other with NP - Design		Retail Design	
	 UNE Loop Other without NP - Design 		Retail Design	
	UNE Other Design		Retail Design	
	Local Interconnection Trunks	X		
			a sa ang ang ang ang ang ang ang ang ang an	
Maintenance	Customer Trouble Report Rate	Diagnostic	Diagnostic	Diagnostic
	Resale Residence	X		
	◆ Resale Business	X		· · · · · · · · · · · · · · · · · · ·
	◆ Resale Design	X		
	◆ Resale PBX	X		
	Resale Centrex	X		
	◆ Resale ISDN	X		
	◆ UNE Design		Retail Design	
	UNE Non-Design		Retail Residence and Business	
	UNE Loop and Port Combos		Retail Residence and Business	
	 UNE 2w Loop – Non-Design 		Retail Residence and Business	
	UNE Loop Other - Non-Design		Retail Residence and Business	
	• UNE Other Non-Design		Retail Residence and Business	
	UNE 2w Loop - Design		Retail Residence and Business	

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BST-SQM Category	Measures and Sub-Métrics	Resale Retail Analogue	UNEs Retail Analogue	Benchmark*
Billing	Invoice Accuracy - continued	and the second		
	Mean Time to Deliver Usage	X		
				Ang looping of the second second
<u>Operator</u> <u>Services</u> (Toll)	Average Speed to Answer	PBD		
11000	% Answered in "X" Seconds	PBD	·	
Directory Assistance	Average Speed to Answer	PBD		and the second secon
<u>E911</u>	Timeliness	PBD		· · · · · · · · · · · · · · · · · · ·
	Accuracy	PBD		
	Mean Interval	PBD		
<u>Trunk</u> <u>Group</u> <u>Performance</u> (Blockage)	Trunk Group Service Report (Percent Trunk Blockage) Any 2 hour period in 24 hours where CLEC blockage exceeds BST blockage by more than 0.5% = a miss using trunk groups 1,3,4,5,10,16 for CLECs and 9 for BST.	X		
	Trunk Group Service Report (Percent Trunk Blockage)	x		
LNP	Average Disconnect Timeliness Interval			$95\% \le 24$ Hrs.
	Percent Missed Installation Appointments		Retail Residence and Business	
	FOC Mechanized			$95\% \le 4$ Hrs.
- ··· · · ···	% Reject Service Request		Diagnostic	
	Average Reject Interval Mechanized			$95\% \le 1$ Hrs.
	TSOCT		Diagnostic	
 	% Flow Through			80%

APPENDIX D

Analogs and Benchmarks

BST SQM Category	Measures and Sub-Metrics	Resale Retail Analogue	UNES Rétail Analogue	Benchmark*
Customer	Coordinated Customer Conversions – UNE Loop			$95\% \le 15$ mins.
Coordinated Conversions	Coordinated Customer Conversions – LNP			95% ≤ 15 mins.
Collocation+	% of Due Dates Missed			< 10% Missed Due Dates
	Average Response Time		FL PSC is addressing this in generic docket	30 Days
+A contract with each CLEC required	Average Arrangement Time Ordinary Extraordinary		FL PSC is addressing this in generic docket	90 Days 130 Days

Note 1: PBD = Parity by Design. UD = Under Development – Benchmarks will be replaced when Analogs are complete.

Note 2: The retail analog for UNE Non-Design and UNE 2w Loops – Design is the average of Retail Residence Dispatch and Retail Business Dispatch transactions for the particular month. The retail analog for other UNE Design is Retail Design Dispatch.

Note 3: Analogs and Benchmarks will be re-evaluated periodically, at least once a year, to validate applicability.

Maintenance			
Continued	Maintenance Average Duration – Resale POTS	Parity with Retail POTS	
	Maintenance Average Duration – Resale Design	Parity with Retail Design	
	Maintenance Average Duration - UNE Loop and Port Combos	Retail Residence and Business	
	Maintenance Average Duration - UNE Loops	Design: Retail Design	
		Non-Design: Retail Res, Bus ¹	
	Maintenance Average Duration – IC Trunks	Parity with Retail	
	Percent Repeat Troubles within 30 Days – Resale POTS	Parity with Retail POTS	
	Percent Repeat Troubles within 30 Days – Resale Design	Parity with Retail Design	
	Percent Repeat Troubles within 30 Days - UNE Loop and Port Combos	Retail Residence and Business	
	Percent Repeat Troubles within 30 Days - UNE Loops	Design: Retail Design	
		Non-Design: Retail Res, Bus ¹	
Billing	Invoice Accuracy	Parity with Retail + 5%	
	Mean Time To Deliver Invoices	Parity with Retail + 1 day	
	Usage Data Delivery Accuracy	Parity with Retail + 1%	
	Usage Data Delivery Timeliness	Parity with Retail + 5%	
Trunk Blockage	Trunk Group Service Report (Percent Trunk Blockage)	Retail Trunk Group Category #9 + 0.5%	
LNP	Average Disconnect Timeliness Interval		95% < 24hrs
	Percent Missed Installation Appointments	Retail Residence and Business	
CC Conversions	Coordinated Customer Conversions for UNE Loop w/o INP		95% < 15min
Collocation	% of Due Dates Missed		< 10%

NOTES: ¹ The retail analog for UNE Non-Design is the average of all dispatch retail residence and dispatch retail business transactions for the particular month. The retail analog for UNE Design is calculated similarly using dispatch retail design results.

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ENFORCEMENT MEASUREMENTS TABLE OF CONTENTS

CATEGORY	FUNCTION*	PAGE #
Pre-Ordering OSS	1. Percent OSS Responses within "X" seconds	7 2
	2. OSS Interface Availability	3
Ordering	1. Percent Flow-through Service Requests	4
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	3. Firm Order Confirmation Timeliness	10
Provisioning	1. Percent Missed Installation Appointments	+ 11
	2. Average (Order) Completion Interval	13
1	3. Coordinated Customer Conversions Interval	15
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Trunk Group Performance	1. Trunk Group Service Report	25
LNP	1. Average Disconnect Timeliness Interval	27
	2. Percent Missed Installation Appointments	28
Collocation	1. Percent of Due Dates Missed	29

* These reports are subject to change due to regulatory requirements, corrections, clarifications, etc.

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PRE-ORDERING - OSS

Report/Measurement :					
Percent Response Received within '6.3" seconds					
Definition:					
Proportion of requests responded to within "6.3"	seconds for accessing legacy data associated with				
appointment scheduling, service & feature availab	pility, address verification, request for Telephone				
Numbers (TNs), and Customer Service Records (CSRs).				
Exclusions:					
None					
Business Rules:					
The response interval starts when the client applic	cation (LENS or TAG for CLECs) submits a request				
to the legacy system and ends when the appropria	te response is returned to the client application. The				
number of legacy accesses during the reporting pe	eriod which take less than "6.3" seconds are captured.				
Level of Disaggregation:					
Region					
Calculation:					
Σ[(Date & Time of Legacy Response) – (Date &	Fime of Request to Legacy)] / (Number of Legacy				
Requests During the Reporting Period) X 100					
Report Structure:					
CLEC Aggregate					
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:				
Report Month					
Response Interval					
Regional Scope					
Retail Analog/Benchmark					
Benchmark					

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PRE-ORDERING

Report/Measurement:					
OSS Interface Availability					
Definition:					
Percent of time OSS interface is functionally available compared to scheduled availability. Availability percentages for CLEC interface systems and for all Legacy systems accessed by them are captured. ("Functional Availability" is the amount of time in hours during the reporting period that the legacy systems are available to users. The planned System Scheduled Availability is the time in hours per day that the legacy system is scheduled to be available.) Scheduled availability is posted on the ICS Operations internet site:					
Exclusions:					
None					
Business Rules:					
 Business Rules: This measurement captures the availability percentages for the BST systems, which are used by CLECs during Pre-Ordering functions. Comparison to BST results allows conclusions as to whether an equal opportunity exists for the CLEC to deliver a comparable customer experience. Note: Only full outages are used in the calculation of Application Availability. A full outage is incurred when any of the following circumstances exist: The application or system is down. The application or system is inaccessible, for any reason, by the customers who normally access the application or system. More than one work center cannot access the application or system for any reason. When only one work center accesses an application or system and 40% or more of the clients in that work center cannot access the application. When 40% of the functions the clients normally perform or 40% of the functionality that is normally provided by an application or system is unavailable. 					
Region					
Calculation:					
(Functional Availability) / (Scheduled Availability) X 100					
Report Structure:					
CLEC Aggregate					
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience				
Report Month Regional Scope					
Retail Analog/Benchmark:					
Benchmark					

ORDERING

Report/Measurement:					
Percent Flow Through Service Requests (Summ	nary)				
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					
 Supplements (Subsequent versions) to canc 	el LSRs that are not LESOG eligible (under development)				
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. The CLEC mechanized ordering process does not include LSRs, which are, submitted manually (e.g., fax, and courier), or are not designed to flow through, i.e., 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.					
<u>Auto-Clarification</u> : errors 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.					
<u>Manual Fallout</u> : 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. Low volume such as activity type "T" (move)				
2. Expedites (requested by the CLEC)	9. Pending order review required				
3. Special pricing plans	10. More than 25 business lines				
4. Denials-restore and conversion, or disconnect	11. Restore or suspend for UNE combos				
and conversion orders					
5. Partial migrations	12. Transfer of calls option for the CLEC's end users				
 Class of service invalid in certain states with some types of service 	13. CSR inaccuracies such as invalid or missing CSR data in CRIS				
7. New telephone number not yet posted to BOCRIS					
*Attached is 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 LSCS to determine if the error is caused by the CLEC, or is due to 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 BST caused, the LCSC representative will correct the error, and the LSR will continue to be processed.					

ORDERING - (Percent Flow Through Service Requests (Summary) - Continued)

Calculation:					
Percent Flow Through ~ (The total number of LSRs that flow through LESOG/LAUTO and reach a status for a					
FOC to be issued) / (the number of LSRs passed fr	$rom LEO/INP Gateway to LESOG/LAUTO) - \SigmaI(the number of$				
I SRs that fall out for manual processing) + (the number of Edited pusces)	imper of I SRs that are returned to the CI EC for clarification) \pm				
(the number of I SPs that contain errors made by CI ECs) X 100					
Peppert Structures					
av DO A					
CLEC Aggregate					
Level of Disaggregation:					
Region					
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience				
Report month					
Total number of LSRs received					
• Total number of errors by type:					
> Fatal rejects					
> Total fallout for manual processing					
Auto clarification					
CLEC caused system fallout					
Total number of errors by error code					
Retail Analog/Benchmark:					
Benchmark					

ORDERING

ATTACHMENT 2 Flowthrough – OSS99

BellSouth Flow-through Analysis For CLECs LSRs placed via EDI or TAG

	BellSouth Service	Flow-through	Complex	Complex	Design	Can ordering this service cause
	Offered to CLEC via	if no BST or	Service	Order	Service	fall out for a reason other than
	resale or UNE	CLEC Errors	(Yes/No)	(Yes/No)	(Yes/No)	errors or complex? If so, what
		(Yes/No)	<u> </u>			reason?
	Flat Rate/Residence	Yes	No	No	no	
2	Flat Rate/Business	Yes	No	No	no	
3	Pay Phone Provider	No	No	No	no	
4	Measured Rate/Res.	Yes	No	No	no	
5	Measured Rate/Bus.	Yes	No	No	no	
6	Area Plus	Yes	No	No	no	
7	Package/Complete	Yes	No	No	no	
L	Choice and area plus					
8	Optional Calling Plan	Yes	No	No	no	
9	Ga. Community Calling	Yes	No	No	no	
10	Call Waiting Deluxe	Yes	No	No	no	
11	Call Waiting	Yes	No	No	no	
12	Caller ID	Yes	No	No	no	
13	Speed Calling	Yes	No	No	no	
14	3 Way Calling	Yes	No	No	no	
15	Call Forwarding-	Yes	No	No	no	
L	Variable					
16	Remote Access to CF	Yes	No	No	no	
17	Enhanced Caller ID	Yes	No	No	no	
18	Memory Call	Yes	No	No	no	
19	Memory Call Ans. Svc.	Yes	No	No	no	
20	MTS	Yes	No	No	no	
21	RCF	Yes	No	No	no	
22	Ringmaster	Yes	No	No	no	
23	Call Tracing	Yes	No	No	no	
24	Call Block	Yes	No	No	no	
25	Repeat Dialing	Yes	No	No	no	
26	Call Selector	Yes	No	No	no	
27	Call Return	Yes	No	No	no	
28	Preferred Call Forward	Yes	No	No	no	
29	Touchtone	Yes	No	No	no	
30	Visual Director	Yes	No	No	no	
31	INP (all types?)	Yes	UNE	No	no	
32	Unbundled Loop-	Yes	UNE	No	Yes-	
	Analog 2W, SL1, SL2				designed,	
					no-non-	
		X as		No	aesigned	······
33	2 wire analog port	Yes	UNE	INO No	10	
34	Local Number	Yes	UNE	IN0	no	
25	Accumulac	No	Var	Var		See note at bottom of matrix
26	Accupuise Basia Bata ISDN	No*	Vec	Ver	yes -	I SP electronically submitted: no
00	Dasic Rate ISDIN	INO.	1 05	1 05	yes	flow through
[BellSouth Service	Flow-through	Complex	Complex	Design	Can ordering this service cause
-------------	--	-------------------------	----------	----------	----------------------------------	--
	Offered to CLEC via	if no BST or	Service	Order	Service	fall out for a reason other than
	resale or UNE	CLEC Errors (Yes/No)	(Yes/No)	(Yes/No)	(Yes/No)	errors or complex? If so, what reason?
37	DID	No*	Yes	Yes	Yes	LSR electronically submitted: no flow through.
38	Frame Relay	No	Yes	Yes	yes	
39	Megalink	No	Yes	Yes	yes	
40	Megalink-Tl	No	Yes	Yes	yes	
41	Native Mode LAN Interconnection (NMLI)	No	Yes	Yes	yes	
42	Pathlink Primary Rate ISDN	No	Yes	Yes	yes	
43	Synchronet	No	Yes	Yes	yes	LSR electronically submitted; no flow through
44	PBX Trunks	No	Yes	Yes	Yes	LSR electronically submitted; no flow through
45	LightGate	No	Yes	Yes	yes	
46	Smartpath	No	Yes	Yes	yes	
47 <i>a</i>	Hunting (Multiline)	No*	Yes	no	no	LSR electronically submitted; no flow through
47b	Hunting (Series Completion)	Yes	Yes	No	No	
48	CENTREX	No	Yes	Yes	no	
49	FLEXSERV	No	Yes	Yes	yes	
50	Multiserv	No	Yes	Yes	yes	
51	Off-Prem Stations	No	Yes	Yes	yes	
52	SmartRING	No	Yes	Yes	yes	
53	FX	No	Yes	Yes	yes	
54	Tie Lines	No	Yes	Yes	Yes	
55	WATS	No	Yes	Yes	yes	
56	4 wire analog voice grade loop	NO	UNE	Yes	designed, no-non- designed	
57	4 wire DS1 and DS0 digital loop	No*	UNE	Yes	yes	LSR electronically submitted: no flow through
58	2 wire ISDN digital loop	No	UNE	Yes	yes	
59	4 wire DS1 & PRI digital loop	No	UNE	Yes	yes	
60	ADSL	No	UNE	Yes	yes	
61	HDSL	No	UNE	Yes	yes	
62	2 wire analog DID trunk port	No	UNE	Yes	Yes	

	BellSouth Service Offered to CLEC via resale or UNE	Flow-through if no BST or CLEC Errors	Complex Service (Yes/No)	Complex Order (Yes/No)	Design Service (Yes/No)	Can ordering this service cause fall out for a reason other than errors or complex? If so, what
63	2 wire ISDN digital line	(Yes/No) No	UNE -	Yes	ves	reason?
	side port				<i>J</i>	
64	4 wire ISDN DSI digital trunk ports	No	UNE	Yes	yes	
65	UNE Combinations	y-loop+port	UNE	Yes	yes	
66	Directory Listings (simple)	Yes	UNE	Yes	no	
	BellSouth Service Offered to CLEC via resale or UNE	Flow-through if no BST or CLEC Errors (Yes/No)	Complex Service (Yes/No)	Complex Order (Yes/No)	Design Service (Yes/No)	Can ordering this service cause fall out for a reason other than errors or complex? If so, what reason?
67	Directory Listings (complex)	No*	UNE	yes	no	LSR submitted electronically; no flow through
68	ESSX	No	Yes	Yes	no	

Note for last column: 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, for denials – restore and conversion or disconnect and conversion both required, partial migrations (although conversions-as-is flow through), class of service invalid in certain states with some TOS – e.g. gov't, 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, restore or suspend for UNE combos, transfer of calls option for CLEC end user – fixed with release 6.0, new TN not yet posted to BOCRIS. All but the last one are unique to the CLEC environment.

ORDERING

Report/Measurement:				
Reject Interval				
Definition:	Definition:			
Reject Interval is the average reject time from receipt of an LSR to the issuance of a Reject. An LSR is considered valid when it is electronically submitted by the CLEC and passes LEO edit checks to insure the data received is correctly formatted and complete.				
Exclusions:				
Service Requests canceled by CLEC				
Business Rules:				
until the LSR is rejected (date and time stamp of are considered in the Fully Mechanized category	reject in LEO). Fatal Rejects and Auto Clarifications			
Calculation:				
Reject Interval = Σ [(Date and Time of Service Request Rejection) – (Date and Time of Service Request Receipt)] / (Number of Service Requests Rejected in Reporting Period)				
Report Structure:	Report Structure:			
CLEC Specific				
Level of Disaggregation:				
State				
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:			
Report Month				
Reject Interval				
 Total Number of LSRs 				
 Total number of Errors 				
• State				
Retail Analog/Benchmark:				
Benchmark; Retail Analog is underdevelopment				

ORDERING

Report/Measurement:			
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 issuance of a firm order co	onfirmation.		
Exclusions:			
Rejected LSRs			
Partially Mechanized or Non-Mechanized LS	Rs received and/or FOCd outside of normal business		
hours.			
Business Rules:			
• Fully Mechanized: The elapsed time from rec	ceipt of a valid electronically submitted LSR (date and		
time stamp in EDI, LENS or TAG) until the L	SR is processed, appropriate service orders are		
generated and a Firm Order Confirmation is re	turned to the CLEC.		
•			
Calculation			
Eigen Onder Confirmation Timalinger - SI(Date and Time of Firm Order Confirmation) (Date and			
Time of Service Request Receipt)] / Number of S	ervice Requests Confirmed in Reporting Period)		
Report Structure	or rice requests commence in reporting remoti		
A CIEC Specific			
Level of Disaggregation:			
Data Retained Relating to CLEC Experience: Data Retained Relating to BST Performance:			
Report Month			
Interval for FOC			
Total number of LSRs			
State			
Retail Analog/Benchmark:			
Renchmark: Retail Analog is underdevelopment			

PROVISIONING

Report/Measurement:				
Percent Missed Installation Appointments				
Definition:				
"Percent missed installation appointments" monitors the reliability of BST commitments with recreat to				
committed due dates to assure that CLECs can reliably quote expected due dates to their retail customer as				
compared to BST. This measure is the percentage of total orders processed for which BST is unable to complete				
the service orders on the committed due dates and reported for both BST and End User Misses				
Exclusions:				
Canceled Service Orders				
 Order Activities of BST or the CLEC associated with internal or administrative use of local services 				
(Record Orders, Test Orders, etc.)				
• Disconnect (D) & From (F) orders				
 End User Misses on 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 "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 = Σ (Number of Orders with Completion date in Reporting Period past				
the Original Committed Due Date) / (Number of Orders Confirmed in Reporting) X 100				
Report Structure:				
CLEC Specific				
• CLEC Aggregate				
• BST Aggregate				
Report explanation: The difference between End User MA and Total MA is the result of BST caused misses.				
Here, Total MA is the total % of orders missed either by BST or CLEC end user and End User MA represents the				
percentage of orders missed by the end user				
Level of Disaggregation:				
Product Reporting Levels				
Resale POTS				
Resale Design				
UNE Loop & Port Combination				
➢ UNE Loops				
Geographic Scope				
> State				

PROVISIONING (Percent Missed Installation Appointments - Continued)

Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience			
Report Month	Report Month			
 CLEC Order Number and PON 	BST Order Number			
 Committed Due Date 	Committed Due Date			
Completion Date	Completion Date			
 Status Type 	Status Type			
Status Notice Date	Status Notice Date			
 Standard Order Activity 	Standard Order Activity			
Geographic Scope	Geographic Scope			
Retail Analog/Benchmark:				
Retail Analog				

PROVISIONING
Report/Measurement :
Average (Order) Completion Interval (OCI)
Definition:
The "average (order) completion interval" measure monitors the interval of time it takes BST to provide
service for the CLEC or its' own customers. This report measures how well BellSouth meets the interval
offered to customers on service orders.
Exclusions:
Canceled Service Orders
 Order Activities of BST or the CLEC associated with internal or administrative use of local services
• (Record Orders, Test Orders, etc.)
• D (Disconnect) and F (From) orders. (From is the 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)
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 BST issues a FOC or SOCS date time stamp receipt of an
order from the CLEC to BST's actual order completion date. This includes all delays for BST'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).
Calculation:
Average (Order) Completion Interval:
Σ [(Completion Date) – (Order Issue Date)]/ Σ (Count of Orders Completed in Reporting Period)
Report Structure:
CLEC Specific
CLEC Aggregate
BST Aggregate

<u>PROVISIONING -</u> (Average Completion Interval (OCI) - Continued)

Level of Disaggregation:					
Product Reporting Levels					
Resale POTS (Dispatch)					
Resale Design (Dispatch)					
UNE Loop & Port Combination (Dispa	tch)				
UNE Loops (Dispatch – W Coded Orde	ers Only)				
IC Trunks (Dispatch)					
Geographic Scope					
> State					
A W-code indicates orders where the CLEC accepts	the offered interval				
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience				
Report Month	Report Month				
CLEC Company Name	BST Order Number				
Order Number	 Order Submission Date & Time 				
 Submission Date & Time 	Order Completion Date & Time				
Completion Date	Service Type				
Service Type	Geographic Scope				
Geographic Scope					
Retail Analog/Benchmark					
Retail Analog					

PROVISIONING

Report/Measurement:					
Coordinated Customer Conversions Interval					
Definition:	Definition:				
This report measures the average time it takes BST to di	sconnect an unbundled loop from the BST				
switch and cross connect it to a CLEC's equipment. This	is measurement applies to service orders with				
and without LNP, and where the CLEC has requested B	ST to provide a coordinated cutover.				
Exclusions:					
 Any order canceled by the CLEC will be excluded to 	from this measurement.				
 Delays due to CLEC following disconnection of the 	unbundled loop				
 Unbundled Loops where there is no existing subscription 	iber loop				
Business Rules:					
Where the service order includes LNP, the interval inclu	des the total time for the cutover including the				
translation time to place the line back in service on the p	orted line. The interval is calculated for the				
entire cutover time for the service order and then divided	I by items worked in that time to give the				
average per item interval for each service order.					
Calculation:					
Σ [(Completion Date and Time for Cross Connection of	an Coordinated Unbundled Loop)-				
(Disconnection Date and Time of an Coordinated Unbur	ndled Loop)] / Total Number of Unbundled				
Loop with Coordinated Conversions (items) for the repo	rting period				
Report Structure:					
CLEC Specific					
CLEC Aggregate					
Level of Disaggregation:					
Geographic Scope					
> State					
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience				
Report Month					
CLEC Order Number					
Committed Due Date					
Service Type					
Cutover Start Time					
 Cutover Completion time 					
 Portability start and completion times (INP Orders) 					
• Total Items					
Retail Analog/Benchmark:					
Benchmark					

PROVISIONING

Report/Measurement:				
% Provisioning Troubles within 4 days of Service Order Completion				
Definition:				
Percent Provisioning Troubles within 4 days of In	stallation measures the quality and accuracy of installation			
activities.	sumation measures the quarky and accuracy of instantation			
Exclusions:				
Canceled Service Orders				
Order Activities of BST or the CLEC associa	ted with internal or administrative use of local services (R			
Orders, Test Orders, etc.)				
Disconnect & From orders				
Business Rules:				
Measures the quality and accuracy of completed of	orders. The first trouble report from a service order after			
completion is counted in this measure. Subsequen	t trouble reports are measured in Repeat Report Rate.			
Reports are calculated by searching in the prior re	port period for completed service orders and following 4			
days after completion for a trouble report.				
Disconnect & From orders are excluded as there is	s no subsequent activity following a disconnect.			
Calculation:				
% Provisioning Troubles within 4 days of Service	Order Activity = Σ (Trouble reports on all completed orders			
\leq 4 days following service order(s) completion) /	(All Service Orders completed in the report calendar month)			
X 100				
Report Structure:				
CLEC Specific				
CLEC Aggregate				
• BST Aggregate				
Level of Disaggregation:				
Product Reporting Levels				
> Resale POTS				
Resale Design				
> UNE Loop & Port Combination				
UNE Loops				
Geographic Scope				
> State				
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience			
Report Month	Report Month			
CLEC Order Number and PON	BST Order Number			
Order Submission Date Order Submission Date				
Order Submission Time Order Submission Time				
Status Type Status Type				
Status Notice Date Status Notice Date				
Standard Order Activity Standard Order Activity				
Geographic Scope Geographic Scope				
Retail Analog/Benchmark:				
Retail Analog				

MAINTENANCE & REPAIR

Report/Measurement:				
Missed Repair Appointments				
Definition:				
The percent of trouble reports not cleared by the committed date and time				
Exclusions:				
Trouble tickets canceled at the CLEC reques	st.			
 BST trouble reports associated with internal 	or administrative service.			
Customer Provided Equipment (CPE) troubl	es or CLEC Equipment Trouble.			
Business Rules:				
The negotiated commitment date and time is esta time is the date and time that BST personnel clea Computer Access Terminal (CAT) or workstation flagged as a "Missed Commitment" or a missed r collected for BST and a CLEC, it can be used to are missed due to BST reasons. (No access report appointment.)	blished when the repair report is received. The cleared in the trouble and closes the trouble report in his/her in. If this is after the Commitment time, the report is repair appointment. When the data for this measure is compare the percentage of the time repair appointments ts are part of this measure because they are not a missed			
intervals are standard interval appointments of no	areater than 24 hours			
Calculation:				
$\frac{\text{Dercentage of Missed Repair Appointments} = \Sigma (i)$	Count of Customer Troubles Not Cleared by the			
$\Delta = \frac{1}{2} \left(\frac{1}{2} \right)^{-1} $	Trouble reports closed in Reporting Period) X 100			
Penort Structure:	Thuble Teports closed in Reporting Forted (FF Too			
CLEC Specific				
CLEC Specific				
BST Aggregate				
Level of Disaggregation:				
Product Reporting Levels				
> Resale POTS				
Resale DESIGN				
UNE Loop & Port Combination				
UNE Loops				
Geographic Scope				
> State				
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience			
Report Month	Report Month			
 CLEC Company Name 	BST Company Code			
Submission Date & Time Submission Date & Time				
Completion Date	Completion Date			
Service Type	Service Type			
 Disposition and Cause 	Disposition and Cause (Non-Design /			
 Geographic Scope Trouble Code (Design and Trunking Services) Geographic Scope 				
Retail Analog/Benchmark				
Retail Analog				
1.000011 1.00000				

MAINTENANCE & REPAIR

Report/Messurement.				
Customer Trouble Report Rate				
Definition				
Initial and reported suptomore direct or unformal two-blocks				
circuita in acruica	bred within a calendar month per 100 lines/			
Exclusioned				
	······································			
• I rouble tickets canceled at the CLEC request.				
BST trouble reports associated with administrative serv	ice.			
Customer provided Equipment (CPE) troubles or CLEC	C equipment troubles.			
Business Rules:				
Customer Trouble Report Rate is computed by accumulating	g the number of maintenance, initial and			
repeated, trouble reports during the reporting period. The res	sulting number of trouble reports are divided by			
the total "number of service" lines, ports that exist for the C	LECs and BST respectively at the end of the			
report month.				
Calculation:				
Customer Trouble Report Rate = (Count of Initial and Repe	ated Trouble Reports in the Current			
Period) / (Number of Service Access Lines in service at End	l of the Report Period) X 100			
Report Structure:				
CLEC Specific				
CLEC Aggregate				
 BST Aggregate. 				
Level of Disaggregation:				
Product Reporting Levels				
Resale POTS				
> Resale DESIGN				
UNE Loop & Port Combination				
> UNE Loops				
Geographic Scope				
> State				
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience			
Report Month	Report Month			
CLEC Company Name	BST Company Code			
Ticket Submission Date & Time	• Ticket Submission Date & Time			
Ticket Submission Date & Time Ticket Completion Date	Ticket Completion Date			
• Ticket Completion Date	Somice Type			
• Service Type • Service Type				
Disposition and Cause Disposition and Cause (Non-Design /				
• # Service Access Lines in Service at the end of period	Non-Special Only)			
Geographic Scope Frouble Code (Design and Trunking Services)				
# Service Access Lines in Service at				
the end of period				
Geographic Scope				
Retail Analog/Benchmark:				
Retail Analog				

MAINTENANCE & REPAIR

Report/Measurement:	
Maintenance Average Duration	
Definition:	
The Average duration of Customer Trouble Peno	the from the reason of the Ousterney Trankle Denset
the time the trouble report is cleared	its from the receipt of the Customer Trouble Report to
Exclusions:	
Trouble reports canceled at the CLEC request	
 BST trouble reports associated with administra 	tive service
Customer Provided Equipment (CPE) troubles	or CI EC Equipment Troubles
Trouble reports greater than 10 days	or Chile Equipment Houses.
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 res	tored (when the technician completes the trouble ticket
on his/her CAT or work system).	
Calculation:	
Maintenance Average Duration = Σ [(Date and Tin	me of Service Restoration) – (Date and Time Trouble
Ticket was Opened)] / (Total Closed Troubles in t	the reporting period)
Report Structure:	
CLEC Specific	
BST Aggregate	
CLEC Aggregate	······································
Level of Disaggregation:	
 Product Reporting Levels 	
Resale POTS	
Resale DESIGN	
UNE Loop & Port Combination	
> UNE Loops	
➢ IU Trunks	
• Geographic Scope	
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
Report Month	Report Month
Total Tickets	Total Tickets
CLEC Company Name	BST Company Code
Ticket Submission Date & Time	Ticket Submission Date
Ticket Completion Date	Ticket submission Time
Service Type	Ticket completion Date
Disposition and Cause	Ticket Completion Time
Geographic Scope	Total Duration Time
"	Service Type
	 Disposition and Cause (Non – Design / Non-Special Only)
	Trouble Code (Design and
	Trunking Services)
	Geographic Scope
Retail Analog/Benchmark:	
Retail Analog	

MAINTENANCE & REPAIR

Report/Measurement:	
Percent Repeat Troubles within 30 Days	
Definition:	
Closed trouble reports on the same line/circuit as	a previous trouble report received within 20 color den
days as a percent of total troubles reported.	a previous a ouble report received within 50 calendar
Exclusions:	
Trouble Reports canceled at the CLEC reque	st
BST Trouble Reports associated with admini-	strative service
Customer Provided Equipment (CPE) Troubl	es or CLEC Equipment Troubles
Business Rules:	
Includes Customer trouble reports received within	30 days of an original Customer trouble report.
Calculation:	
Percentage of Missed Repair Appointments = (Co	unt of Customer Troubles where more than one
trouble report was logged for the same service line	e within a continuous 30 days) / (Total Trouble
Reports Closed in Reporting Period) X 100	
Report Structure:	
CLEC Specific	
CLEC Aggregate	
BST Aggregate	
Level of Disaggregation:	
Product Reporting Levels	
Resale POTS	
Resale DESIGN	
UNE Loop & Port Combination	
UNE Loops	
Geographic Scope	
➢ State	
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
Report Month	Report Month
Total Tickets	Total Tickets
CLEC Company Name	BST Company Code
 Ticket Submission Date & Time 	 Ticket Submission Date
 Ticket Completion Date 	Ticket Submission Time
 Total and Percent Repeat Trouble Reports 	Ticket Completion Date
within 30 Days	Ticket Completion Time
Service Type	Total and Percent Repeat Trouble Reports
 Disposition and Cause 	within 30 days
Geographic Scope	Service Type
	 Disposition and Cause (Non – Design/ Non-Special only)
	Trouble Code (Design and
	Trunking Services)
	Geographic Scope
Retail Analog/Benchmark:	·
Retail Analog	

Report/Measurement:	
Invoice Accuracy (Billing Accuracy)	
Definition.	
This measure provides the percentage of accuracy	of the billing invoices rendered to CLECs during the
current month	of the offing involces fendered to CLECS during the
Exclusions:	
A diustments not related to hilling amore (a g	andita for convice output and in the state of the
 Adjustments not related to oming errors (e.g. adjustments to asticify the systemer) 	, credits for service outage, special promotion credits,
Rusiness Buless	
Dusiness Rules:	
The accuracy of billing invoices delivered by BST	to the CLEC must enable them to provide a degree
of billing accuracy comparative to BS1 bills rend	ered to retail customers of BST. CLECs request
adjustments on bills determined to be incorrect.	he BellSouth Billing verification process includes
manually analyzing a sample of local bills from e	ach 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:	
Invoice Accuracy = (Total Billed Revenues during c	urrent month) – (Absolute Value of Billing Related
Adjustments during current month) / Total Billed Rev	enues during current month X 100
Report Structure:	
CLEC Aggregate	
BST Aggregate	
Level of Disaggregation :	
Geographic Scope	
> State	
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:
Report Month	Report Month
Invoice Type	Retail Type
Total Billed Revenue	> CRIS
Billing Related Adjustments	> CABS
	Total Billed Revenue
	Billing Related Adjustments
Retail Analog/Benchmark	
Where BST Billing Accuracy exceeds CLEC Accuracy by more than 5%	

Report/Measurement:	
Mean Time to Deliver Invoices (Billing Timeliness)	
Definition:	
Bill Distribution is calculated as follows: CRIS BI	LLS-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 a	re counted in the CRIS work day category for the
purposes of the measurement since their billing acc	ount number (Q account) is provided from the CRIS
system.	
CABS BILLS-The number of calendar days is rep	orted for CABS bills. This is calculated by counting
the day following the Bill Period date as the first of	alendar day. Weekends and holidays are included
when counting the calendar days.	
Exclusions:	
Any invoices rejected due to formatting or content	t 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 me	asured in business days, and CABS-based involces in
Calendar days.	
Mean Time To Deliver Involces = Σ [(Involce Iran	Ismission Date)- (Close Date of Scheduled Bill
Cycle)] / (Count of Invoices Transmitted in Reporting Period)	
Report Structure:	
CLEC Aggregate	
BST Aggregate	
Level of Disaggregation:	
Geographic Scope	
> Region	DA DALLAND LANDA BCT Destances
Data Retained Relating to CLEC Experience:	Data Retained Relating to BS1 Performance:
• Report Month	• Report Month
• Invoice Type	• Retail Type
Invoice Transmission Count	V UKIS
Date of Scheduled Bill Close	CADD Invoice Transmission Count
	 Invoice Transmission Count Data of Calculat Bill Class
	Date of Scheduled Bill Close
Retail Analog/Benchmark:	
Where CLEC Billing Timeliness exceeds BST Billing Timeliness by more than 1 day	

Report/Measurement:		
Usage Data Delivery Accuracy		
Definition:		
This measurement captures the percentage of rec	orded usage that is delivered error free and in an	
acceptable format to the appropriate CLEC. The	se percentages will provide the necessary data for use	
as a comparative measurement for BellSouth per	as a comparative measurement for BellSouth performance. This measurement captures Data Delivery	
Accuracy rather than the accuracy of the individu	al usage recording.	
Exclusions:		
None		
Business Rules:		
The accuracy of the data delivery of usage record	is delivered by BST to the CLEC must enable them to	
provide a degree of accuracy comparative to BS1	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.		
Calculations:		
Usage Data Delivery Accuracy = Σ [(Total number of usage data packs sent during current month) –		
(Total number of usage data packs requiring retransmission during current month)] / (Total number of		
usage data packs sent during current month) X 100		
Report Structure:		
CLEC Aggregate		
BST Aggregate		
Level of Disaggregation:		
Geographic Scope		
Region		
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:	
Report Month	Report Month	
Record Type	Record Type	
BellSouth Recorded		
Non BellSouth Recorded		
Retail Analog/Benchmark:		
Where BST Usage Data Delivery Accuracy exceeds CLEC Usage Data Delivery Accuracy by more than		
1%		

Report/Measurement:		
Usage Data Delivery Timeliness		
Definition:		
This measurement provides a percentage of record	ded usage data (usage recorded by BST and usage	
recorded by other companies and sent to BST for	recorded by other companies and sent to BST for billing) that is delivered to the appropriate CLEC	
within six (6) calendar days from the receipt of th	within six (6) calendar days from the receipt of the initial recording. A comparative measure is also	
provided showing timeliness of BST messages pr	ocessed and transmitted via CMDS. Timeliness,	
Completeness and Mean Time to Deliver Usage n	neasures are reported on the same report.	
Exclusions:		
None		
Business Rules:		
The purpose of this measurement is to demonstrat	e 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 BST receives the records to the date BST		
distributes to the CLEC. Method of delivery is at the option of the CLEC.		
Calculation:		
Usage Data Delivery Timeliness = (Total number of usage records sent within six (6) calendar days		
from initial recording/receipt) / (Total number of usage records sent) X 100		
Report Structure:		
CLEC Aggregate		
BST Aggregate		
Level of Disaggregation:		
Geographic Scope		
> State		
Data Retained Relating to CLEC Experience:	Data Retained Relating to BST Performance:	
Report Month	Report Monthly	
 Record Type 	Record Type	
BellSouth Recorded		
Non-BellSouth Recorded		
Retail Analog/Benchmark:		
Where the percent of BST Usage records exceeds the	he percent of CLEC Usage records by more than 5%	

TRUNK GROUP PERFORMANCE

Report/Measurement:

TGP-1. Trunk Group Performance

Definition:

The Trunk Group Performance report displays, over a reporting cycle, aggregate, weighted average trunk group blocking data for each hour of each day of the reporting cycle, for both CLEC affecting and BST affecting trunk groups.

Exclusions:

- Trunk Groups for which valid data is not available for an entire study period
- Duplicate trunk group information

Business Rules:

The purpose of the Trunk Group Performance Report is to provide trunk blocking measurements on CLEC and BST trunk groups for comparison only. It is not the intent of the report that it be used for network management and/or engineering.

Monthly Weighted 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	<u>Point B</u>
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
RellSouth Af	fecting Category:	
benovuti Al		

	Point <u>A</u>
Category 9:	BellSouth End Office

Point B BellSouth End Office

TRUNK GROUP PERFORMANCE - (Trunk Group Performance - Continued)

Calculation:		
Monthly Average Blocking:		
• For each hour of the day, each day's raw data a	• 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 blo 	cking value for each of the 24 hours by group.	
The difference between the CLEC and BellSouth a	ffecting trunk groups are also calculated for each hour.	
Report Structure:		
CLEC Aggregate		
BST Aggregrate		
• State		
Level of Disaggregation:		
Trunk Group		
Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience	
Report Month	Report Month	
 Total Trunk Groups 	Total Trunk Groups	
 Number of Trunk Groups by CLEC 	 Aggregate Hourly average blocking 	
 Hourly average blocking per trunk group 		
Retail Analog/Benchmark:		
Any 2 hour period in 24 hours where CLEC blockage	ge exceeds BST blockage by more than 0.5% = a miss using trunk	
groups 1, 3, 4, 5, 10, 16 for CLECs and 9 for BST.		

<u>LNP</u>

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Report/Measurement :
Average Disconnect Timeliness Interval & Disconnect Timeliness Interval Distribution
Definition:
Disconnect Timeliness is defined as the interval between the time the LNP Gateway receives the
'Number Ported' message from NPAC (signifying the CLEC 'Activate') until the time that the
Disconnect service order for an LSR is completed in SOCS. This interval effectively measures BST
responsiveness by isolating it from impacts that are caused by CLEC related activities.
Exclusions:
Canceled Service Orders
• Order Activities of BST or the CLEC associated with internal or administrative use of local
services (Record Orders, Test Orders, etc.) where identifiable.
• "L" Appointment code orders (indicating the customer has requested a later than offered interval)
Business Rules:
The Disconnect Timeliness interval is determined for the last Disconnect service order processed on an
LSR during the reporting period. The Disconnect Timeliness interval is the elapsed time from when
BST receives the last 'Number Ported' message for an LSR from NPAC (signifying the CLEC
'Activate') until the last Disconnect service order is completed 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 total number of selected disconnect orders which have been completed.
Mechanized (service orders generated by LSRs submitted via EDI or TAG)
Calculation :
Average Disconnect Timeliness Interval:
Σ [(Disconnect Service Order Completion Date & Time) - ('Number Ported' Message Received Date
& Time)] / Σ (Total Number of Disconnect Service Orders Completed in Reporting Period)
Disconnect Timeliness Interval Distribution:
[Σ (Disconnect Service Orders Completed in "X" days) / (Total Disconnect Service Orders Completed
in Reporting Period)] X 100
Report Structure:
CLEC Specific
CLEC Aggregate
Level of Disaggregation:
Product Reporting Levels
> LNP
Geographic Scope
> State
Retail Analog/Benchmark:
Benchmark

<u>LNP</u>

Report/Measurement:
Percent Missed Installation Appointments
Definition:
Percent Missed Installation Appointments monitors the reliability of BST commitments with respect to committed due dates to assure that CLECs can reliably quote expected due dates to their retail customer as compared to BST. This measure is the percentage of total orders processed for which BST is unable to complete the service orders on the committed due dates and reported for both BST and End User Misses.
Exclusions:
 Canceled Service Orders Order Activities of BST or the CLEC associated with internal or administrative use of local services (Record Orders, Test Orders, etc.) where identifiable.
Business Rules:
Percent Missed Installation Appointments (PMI) is the percentage of total orders processed for which BST is unable to complete the service order on the committed due date. Missed Appointments caused by end-user reasons will be included and reported in a separate category. 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: LNP Percent Missed Installation Appointments = Σ (Number of Orders with Completion date in Reporting Period past the Original Committed Due Date) / (Number of Orders Confirmed in Reporting) X 100
Report Structure:
 Mechanized (service orders generated by LSRs submitted via EDI or TAG) CLEC Specific CLEC Aggregate
Report explanation: Total Missed Appointments is the total % of orders missed either by BST 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 number of BST caused misses.
Level of Disaggregation:
 Product Reporting Levels LNP Geographic Scope State
Retail Analog/Benchmark:
Retail Analog

COLLOCATION

Papart/Massuraments
Report Measurement:
Collocation/Percent of Due Dates Missed
Definition:
Measures the percent of missed due dates for collocation arrangements.
Exclusions:
Any Bona Fide firm order cancelled by the CLEC
 Bona Fide firm orders to augment previously completed arrangements
• Time for BST to obtain permits
 Time during which the collocation contract is being negotiated
Business Rules:
Percent Due Dates Missed is the percent of total collocation arrangements which BST is unable to
complete by end of the ILEC committed due date. The clock starts on the date that BST receives a
complete and accurate Bona Fide firm order accompanied by the appropriate fee. 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 = Σ (Number of Completed Orders that were not completed w/I ILEC
Committed Due Date during Reporting Period) / Number of Orders Completed in Reporting Period) X
100.
Report Structure:
CLEC Specific
CLEC Aggregate
Level of Disaggregation:
State
• Physical
Data Retained:
Report period
Aggregate data
Retail Analog/Benchmark:
Benchmark

EXHIBIT C

Exhibit C

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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 treat 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.

- <u>Like-to-Like Comparisons</u>. 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.
- <u>Aggregate Level Test Statistic</u>. 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.
- <u>Production Mode Process</u>. 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.
- <u>Balancing</u>. The testing methodology should balance Type I and Type II Error probabilities.
 - P(Type I Error) = P(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.
- <u>Trimming</u>. 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. Table 2 classifies the performance measures by the type of measurement.

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 λ n where λ 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 TECHNICAL DESCRIPTION

We start by assuming that any necessary trimming¹ 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.

- L = the total number of occupied cells
- j = 1,...,L; an index for the cells
- n_{li} = the number of ILEC transactions in cell j
- n_{2i} = the number of CLEC transactions in cell j
- n_j = the total number transactions in cell j; $n_{1j} + n_{2i}$
- X_{lik} = individual ILEC transactions in cell j; k = 1,..., n_{li}
- X_{2jk} = individual CLEC transactions in cell j; k = 1,..., n_{2j}
- Y_{jk} = individual transaction (both ILEC and CLEC) in cell j

$$= \begin{cases} X_{1jk} & k = 1, K, n_{1j} \\ X_{2jk} & k = n_{1j} + 1, K, n_j \end{cases}$$

 $\Phi^{-1}(\cdot)$ = the inverse of the cumulative standard normal distribution function

For Mean Performance Measures the following additional notation is needed.

 \overline{X}_{ij} = the ILEC sample mean of cell j \overline{X}_{2j} = the CLEC sample mean of cell j s_{1j}^2 = the ILEC sample variance in cell j

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.

¹ When it is determined that a measure should be trimmed, a trimming rule that is easy to implement in a production setting is:

 s_{2i}^2 = the CLEC sample variance in cell j

 $\{y_{jk}\} =$ a random sample of size n_{2j} from the set of $Y_{jl}, K, Y_{jn_1}; k = 1, ..., n_{2j}$

 M_j = the total number of distinct pairs of samples of size n_{1j} and n_{2j} ;

$$= \begin{pmatrix} n_{j} \\ n_{lj} \end{pmatrix}$$

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

$$PM(t) = P(\sum_{k} y_{jk} = t) = \frac{the \ number \ of \ samples \ that \ sum \ to \ t}{M_{j}},$$

and the corresponding cumulative permutation distribution is

$$CPM(t) = P(\sum_{k} y_{jk} \le t) = \frac{\text{the number of samples with sum } \le t}{M_{j}}.$$

For Proportion Performance Measures the following notation is defined

 a_{ij} = 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

$$HG(h) = P(H = h) = \begin{cases} \frac{\binom{n_{1j}}{h}\binom{n_{2j}}{a_j - h}}{\binom{n_j}{a_j}}, \max(0, a_j - n_{2j}) \le h \le \min(a_j, n_{1j}) \\ \binom{n_j}{a_j}, \max(0, a_j - n_{2j}) \le h \le \min(a_j, n_{1j}), \end{cases}$$

and the cumulative hypergeometric distribution is

$$CHG(x) = P(H \le x) = \begin{cases} 0 & x < \max(0, a_j - n_{2j}) \\ \sum_{h=\max(0, a_j - n_{1j})}^{x} HG(h), & \max(0, a_j - n_{2j}) \le x \le \min(a_j, n_{1j}) \\ 1 & x > \min(a_j, n_{1j}) \end{cases}$$

For Rate Measures, the notation needed is defined as

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) =
$$\begin{cases} \binom{n_j}{k} q_j^k (1 - q_j)^{n_j - k}, & 0 \le k \le n_j \\ 0 & \text{otherwise} \end{cases}$$

and the cumulative binomial distribution is

$$CBN(x) = P(B \le x) = \begin{cases} 0 & x < 0\\ \sum_{k=0}^{x} BN(k), & 0 \le x \le n_{j}\\ 1 & x > n_{j} \end{cases}$$

Exhibit C

For Ratio Performance Measures the following additional notation is needed.

- U_{ijk} = additional quantity of interest of an individual ILEC transaction in cell j; k = 1,..., n_{1j}
- U_{2jk} = additional quantity of interest of an individual CLEC transaction in cell j; k = 1,..., n_{2j}

$$\hat{R}_{ij} = \text{the ILEC (i = 1) or CLEC (i = 2) ratio of the total additional quantity of interest to the base transaction total in cell j, i.e.,
$$\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

$$\mathbf{W}_{j} = \sqrt{\frac{\mathbf{n}_{2j}\mathbf{n}_{1j}}{\mathbf{n}_{j}} \cdot \frac{\mathbf{a}_{j}}{\mathbf{n}_{j}} \cdot \left(1 - \frac{\mathbf{a}_{j}}{\mathbf{n}_{j}}\right)}$$

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 $W_i = 0$, set $Z_i = 0$.
 - Otherwise, the actual Z statistic calculation depends on the type of performance measure.

Mean Measure

$$Z_i = \Phi^{-1}(\alpha)$$

where α is determine by the following algorithm.

If $\min(n_{1j}, n_{2j}) > 6$, then determine α as

$$\alpha = P(t_{n_{1j}-1} \leq T_j),$$

that is, α is the probability that a t random variable with n_{ij} - 1 degrees of freedom, is less than

$$T_{j} = \begin{cases} t_{j} + \frac{g}{6} \left(\frac{n_{1j} + 2n_{2j}}{\sqrt{n_{1j} n_{2j}(n_{1j} + n_{2j})}} \right) \left(t_{j}^{2} + \frac{n_{2j} - n_{1j}}{n_{1j} + 2n_{2j}} \right) & t_{j} \ge t_{\min j} \\ t_{j} + \frac{g}{6} \left(\frac{n_{1j} + 2n_{2j}}{\sqrt{n_{1j} n_{2j}(n_{1j} + n_{2j})}} \right) \left(t_{\min j}^{2} + \frac{n_{2j} - n_{1j}}{n_{1j} + 2n_{2j}} \right) & \text{otherwise} \end{cases}$$

where

$$t_{j} = \frac{\overline{X}_{1j} - \overline{X}_{2j}}{s_{1j}\sqrt{\frac{1}{n_{1j}} + \frac{1}{n_{2j}}}},$$
$$t_{\min j} = \frac{-3\sqrt{n_{1j}n_{2j}n_{j}}}{g(n_{1j} + 2n_{2j})}$$

and g is the median value of all values of

$$\gamma_{1j} = \frac{n_{1j}}{(n_{1j} - 1)(n_{1j} - 2)} \sum_{k} \left(\frac{X_{1jk} - \overline{X}_{1j}}{s_{1j}} \right)^{3}$$

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) $M_j \le 1,000$ (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_{2i}.
 - 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.

$$\alpha = 1 - \frac{R_0 - 0.5}{M_i}$$

b) $M_i > 1,000$

- Draw a random sample of 1,000 sample sums from the permutation distribution.
- Add the observed sample sum to the list. There is a total of 1001 sample sums. Rank the sample sums from smallest to largest. Ties are dealt by using average ranks.
- Let R₀ be the rank of the observed sample sum with respect all the sample sums.

$$\alpha = 1 - \frac{R_0 - 0.5}{1001} \, .$$

Proportion Measure

$$Z_{j} = \frac{n_{j} a_{ij} - n_{ij} a_{j}}{\sqrt{\frac{n_{1j} n_{2j} a_{j} (n_{j} - a_{j})}{n_{j} - 1}}}.$$

Rate Measure

$$Z_{j} = \frac{n_{1j} - n_{j} q_{j}}{\sqrt{n_{j} q_{j} (1 - q_{j})}}$$

Ratio Measure

$$Z_{j} = \frac{\hat{R}_{1j} - \hat{R}_{2j}}{\sqrt{V(\hat{R}_{1j}) \left(\frac{1}{n_{1j}} + \frac{1}{n_{2j}}\right)}}$$
$$V(\hat{R}_{1j}) = \frac{\sum_{k} \left(U_{1jk} - \hat{R}_{1j}X_{1jk}\right)^{2}}{\overline{X}_{1j}^{2}(n_{1j} - 1)} = \frac{\sum_{k} U_{1jk}^{2} - 2\hat{R}_{1j}\sum_{k} \left(U_{1jk}X_{1jk}\right) + \hat{R}_{1j}^{2}\sum_{k} X_{1jk}^{2}}{\overline{X}_{1j}^{2}(n_{1j} - 1)}$$

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

$$Z_i^* = \min(0, Z_i).$$

- 4. Calculate the theoretical mean and variance of the truncated statistic under the null hypothesis of parity, $E(Z_j^*|H_0)$ and $Var(Z_j^*|H_0)$. 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 $Var(Z_j^* | H_0)$ 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, $\min\left(n_{1j}, n_{2j}\right) > 15$ 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

$$E(Z_{j}^{*} | H_{0}) = -\frac{1}{\sqrt{2\pi}}$$
, and
 $Var(Z_{j}^{*} | H_{0}) = \frac{1}{2} - \frac{1}{2\pi}$.

• Otherwise, determine the total number of values for Z_j^* . Let z_{ji} and θ_{ji} , denote
the values of Z_j^* and the probabilities of observing each value, respectively.

.

$$E(Z_{j}^{*} | H_{0}) = \sum_{i} \theta_{ji} z_{ji} \text{ ,and}$$
$$Var(Z_{j}^{*} | H_{0}) = \sum_{i} \theta_{ji} z_{ji}^{2} - \left[E(Z_{j}^{*} | H_{0})\right]^{2}$$

The actual values of the z's and θ 's depends on the type of measure.

Mean Measure

$$N_{j} = \min(M_{j}, 1, 000), \ i = 1, K, N_{j}$$

$$z_{ji} = \min\left\{0, \Phi^{-1}\left(1 - \frac{R_{i} - 0.5}{N_{j}}\right)\right\} \text{ where } R_{i} \text{ is the rank of sample sum i}$$

$$\theta_{j} = \frac{1}{N_{i}}$$

Proportion Measure

$$z_{ji} = \min\left\{0, \frac{n_{j} i - n_{1j} a_{j}}{\sqrt{\frac{n_{1j} n_{2j} a_{j} (n_{j} - a_{j})}{n_{j} - 1}}}\right\}, \quad i = \max(0, a_{j} - n_{2j}), K, \min(a_{j}, n_{1j})$$
$$\theta_{ji} = HG(i)$$

Rate Measure

$$\begin{aligned} \mathbf{z}_{ji} &= \min\left\{0, \frac{\mathbf{i} - \mathbf{n}_j \mathbf{q}_j}{\sqrt{\mathbf{n}_j \mathbf{q}_j (1 - \mathbf{q}_j)}}\right\}, \quad \mathbf{i} = 0, \mathbf{K}, \mathbf{n}_j \\ \theta_{ji} &= \mathbf{BN}(\mathbf{i}) \end{aligned}$$

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 resampling method can be used.

1. Calculate the aggregate test statistic, Z^{T} .

$$Z^{T} = \frac{\sum_{j} W_{j}Z_{j}^{*} - \sum_{j} W_{j}E(Z_{j}^{*}|H_{0})}{\sqrt{\sum_{j} W_{j}^{2} Var(Z_{j}^{*}|H_{0})}}$$

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 rule² is

- If $Z^T < c$ then accept H_a .
- If $Z^T \ge c$ 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**: $\beta = P(Z^T \ge c | H_a)$.

We want a balancing critical value, $c_{\rm B}$, so that $\alpha = \beta$.

It can be shown that.

 $^{^{2}}$ 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.

$$c_{B} = \frac{\sum_{j} W_{j} M(m_{j}, se_{j}) - \sum_{j} W_{j} \frac{-1}{\sqrt{2\pi}}}{\sqrt{\sum_{j} W_{j}^{2} V(m_{j}, se_{j})} + \sqrt{\sum_{j} W_{j}^{2} \left(\frac{1}{2} - \frac{1}{2\pi}\right)}}.$$

where

$$M(\mu, \sigma) = \mu \Phi(\frac{-\mu}{\sigma}) - \sigma \phi(\frac{-\mu}{\sigma})$$
$$V(\mu, \sigma) = (\mu^2 + \sigma^2) \Phi(\frac{-\mu}{\sigma}) - \mu \sigma \phi(\frac{-\mu}{\sigma}) - M(\mu, \sigma)^2$$

 $\Phi(\cdot)$ 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_i and se_i 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:

$$\begin{split} H_{0}: \ \mu_{1j} &= \mu_{2j}, \ \sigma_{1j}^{2} = \sigma_{2j}^{2} \\ H_{a}: \ \mu_{2j} &= \mu_{1j} + \delta_{j} \cdot \sigma_{1j}, \ \sigma_{2j}^{2} = \lambda_{j} \cdot \sigma_{1j}^{2} \qquad \delta_{j} > 0, \ \lambda_{j} \geq 1 \ \text{and} \ j = 1, \dots, L \end{split}$$

Under this form of alternative hypothesis, the cell test statistic Z_j has mean and standard error given by

$$m_{j} = \frac{-\delta_{j}}{\sqrt{\frac{1}{n_{1j}} + \frac{1}{n_{2j}}}}, and$$

 $se_{j} = \sqrt{\frac{\lambda_{j}n_{1j} + n_{2j}}{n_{1j} + n_{2j}}}$

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:

$$H_{0}: \frac{p_{2j}(1-p_{1j})}{(1-p_{2j})p_{1j}} = 1$$

$$H_{a}: \frac{p_{2j}(1-p_{1j})}{(1-p_{2j})p_{1j}} = \psi_{j} \qquad \qquad \psi_{j} > 1 \text{ and } j = 1,...,L.$$

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 ψ_i 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_{1i} are given by³

$$E(a_{1j}) = n_j \pi_j^{(1)}$$
$$var(a_{1j}) = \frac{n_j}{\frac{1}{\pi_j^{(1)}} + \frac{1}{\pi_j^{(2)}} + \frac{1}{\pi_j^{(3)}} + \frac{1}{\pi_j^{(4)}}}$$

where

³ Stevens, W. L. (1951) Mean and Variance of an entry in a Contingency Table. Biometrica, 38, 468-470.

$$\begin{aligned} \pi_{j}^{(1)} &= f_{j}^{(1)} \left(n_{j}^{2} + f_{j}^{(2)} + f_{j}^{(3)} - f_{j}^{(4)} \right) \\ \pi_{j}^{(2)} &= f_{j}^{(1)} \left(-n_{j}^{2} - f_{j}^{(2)} + f_{j}^{(3)} + f_{j}^{(4)} \right) \\ \pi_{j}^{(3)} &= f_{j}^{(1)} \left(-n_{j}^{2} + f_{j}^{(2)} - f_{j}^{(3)} + f_{j}^{(4)} \right) \\ \pi_{j}^{(4)} &= f_{j}^{(1)} \left(n_{j}^{2} \left(\frac{2}{\psi_{j}} - 1 \right) - f_{j}^{(2)} - f_{j}^{(3)} - f_{j}^{(4)} \right) \\ f_{j}^{(1)} &= \frac{1}{2n_{j}^{2} \left(\frac{1}{\psi_{j}} - 1 \right)} \\ f_{j}^{(2)} &= n_{j}n_{1j} \left(\frac{1}{\psi_{j}} - 1 \right) \\ f_{j}^{(3)} &= n_{j}a_{j} \left(\frac{1}{\psi_{j}} - 1 \right) \\ f_{j}^{(4)} &= \sqrt{n_{j}^{2} \left[4n_{1j} \left(n_{j} - a_{j} \right) \left(\frac{1}{\psi_{j}} - 1 \right) + \left(n_{j} + \left(a_{j} - n_{1j} \right) \left(\frac{1}{\psi_{j}} - 1 \right) \right)^{2} \right]} \end{aligned}$$

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

$$m_{j} = \frac{n_{j}^{2} \pi_{j}^{(1)} - n_{1j} a_{j}}{\sqrt{\frac{n_{1j} n_{2j} a_{j} (n_{j} - a_{j})}{n_{j} - 1}}}, \text{ and}$$

$$se_{j} = \sqrt{\frac{n_{j}^{3} (n_{j} - 1)}{\frac{n_{1j} n_{2j} a_{j} (n_{j} - a_{j}) \left(\frac{1}{\pi_{j}^{(1)}} + \frac{1}{\pi_{j}^{(2)}} + \frac{1}{\pi_{j}^{(3)}} + \frac{1}{\pi_{j}^{(4)}}\right)}}.$$

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:

$$H_0: r_{1j} = r_{2j}$$

 $H_a: r_{2j} = \varepsilon_j r_{1j}$ $\varepsilon_j > 1 \text{ and } j = 1,...,L.$

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

$$q_{j}^{*} = \frac{r_{lj}b_{1j}}{r_{lj}b_{1j} + r_{2j}b_{2j}} \,.$$

Therefore, the mean and variance of n_{1j} , are given by

$$E(n_{1j}) = n_j q_j^*$$

var(n_{1j}) = n_j q_j^* (1 - q_j^*)

Under the null hypothesis

$$\mathbf{q}_{j}^{\bullet} = \mathbf{q}_{j} = \frac{\mathbf{b}_{lj}}{\mathbf{b}_{i}},$$

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_i 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, λ_j and δ_j . Proportion and rate measures have been indexed by one set of parameters each, ψ_j and ε_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 δ_j are set to a common non-zero value, and another set of alternatives in each of which just one δ_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:

- <u>Parameter Choices for λ_i </u>. The set of parameters λ_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 λ_j . Put another way, reasonable differences in the values chosen here could make very little difference in the balancing points chosen.
- <u>Parameter Choices for δ_i </u>. The set of parameters δ_j are much more important in the choice of the balancing point than was true for the λ_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 δ_j could be very important. Sample size matters here too. For example, setting all the δ_j to a single value $-\delta_j = \delta -$ might be fine for tests across individual CLECs where currently in Louisiana the CLEC customer bases are not too different. Using the same value of δ for the overall state testing does not seem sensible. At the state level we are

aggregating over CLECs, so using the same δ as for an individual CLEC would be saying that a "meaningful" degree of disparity is one where the violation is the same (δ) for each CLEC. But the detection of disparity for any component CLEC is important, so the relevant "overall" δ should be smaller.

<u>Parameter Choices for ψ_i or ε_j</u>. The set of parameters ψ_j or ε_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 δ for mean measures. Sample size matters here too. As with mean measures, using the same value of ψ or ε for the overall state testing does not seem sensible.

The three parameters are related however. If a decision is made on the value of δ , it is possible to determine equivalent values of ψ and ε . The following equations, in conjunction with the definitions of ψ and ε , show the relationship with delta.

$$\delta = 2 \cdot \arcsin(\sqrt{\hat{p}_1}) - 2 \cdot \arcsin(\sqrt{\hat{p}_1})$$
$$\delta = 2\sqrt{\hat{r}_2} - 2\sqrt{\hat{r}_1}$$

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 make it very easy to determine favoritism: a positive *diff* suggests no favoritism, and a negative *diff* suggests favoritism.

EXHIBIT D

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BST VSEEM REMEDY PROCEDURE

TIER-1 CALCULATION FOR RETAIL ANALOGUES:

- 1. Calculate the overall test statistic for each CLEC; z^{T}_{CLEC1} (See Exhibit C)
- 2. Calculate the balancing critical value (${}^{C}_{B_{cLEC1}}$) that is associated with the alternative hypothesis (for fixed parameters δ , ψ or ε). (See Exhibit C)
- 3. If the overall test statistic is equal to or above the balancing critical value, stop here. That is, if $B_{CLEC1} < z^{T}_{CLEC1}$, stop here. Otherwise, go to step 4.
- Calculate the Parity Gap by subtracting the value of step 2. from that of step 1.;
 z^T_{CLEC1} ^C_{B CLEC1}
- Calculate the Volume Proportion using a linear distribution with slope of ¼. This can be accomplished by taking the absolute value of the Parity Gap from step 4. divided by 4; ABS((z^T_{CLEC1} ^C_{B cLEC1}) / 4). All parity gaps equal or greater to 4 will result in a volume proportion of 100%.
- Calculate the Affected Volume by multiplying the Volume Proportion from step 5. by the Total Impacted CLEC₁ Volume (I_c) in the negatively affected cell; where the cell value is negative. (See Exhibit C)
- 7. Calculate the payment to CLEC-1 by multiplying the result of step 6. by the appropriate dollar amount from the fee schedule.

So, CLEC-1 payment = Affected Volume_{CLEC1} * \$\$ from Fee Schedule

Example: CLEC-1 Missed Installation Appointments (MIA) for Resale POTS

	n _I	n _c	1 _c	MIA	MIAc	z^{T} CLEC1	C _B	Parity Gap	Volume Proportion	Affected Volume
State	50000	600	96	9%	16%	-1.92	-0.21	1.71	0.4275	
Cell						Z _{CLEC1}				
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
									-	20

where $n_i = ILEC$ observations and $n_c = CLEC-1$ observations

Payout for CLEC-1 is (29 units) * (\$100/unit) = \$2,900

8/22/00

	n _I	n _c	I _c	OCI	OCIc	Z^TCLEC1	C _B	Parity	Volume	Affected
State	50000	600	600	5days	7days	-1.92	-0.21	0ap 1.71	0.4275	volume
Cell						Z _{CLEC1}				
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

Example: CLEC-1 Order Completion Interval (OCI) for Resale POTS

where $n_l = ILEC$ observations and $n_c = CLEC-1$ observations

Payout for CLEC-1 is (133 units) * (\$100/unit) = <u>\$13,300</u>

TIER-2 CALCULATION for RETAIL ANALOGUES:

- 1. Tier-2 is triggered by three consecutive monthly failures of any VSEEM submetric in the same quarter.
- 2. Therefore, calculate monthly statistical results and affected volumes as outlined in steps 2. through 6. for the CLEC Aggregate performance.
- 3. Calculate the payment to State Designated Agency by sum totaling each months affected volume and multiplying the result by the appropriate dollar amount from the Tier-2 fee schedule.

So, State Designated Agency payment

= Σ (Affected Volume_{CLECA} for each month in quarter) * \$\$ from Fee Schedule

State	n _I	n _c	l _c ,	MIA	MIAc	Z ^T CLECA	C _B	Parity Gap	Volume Proportion	Affected Volume
Month1	180000	2100	336	9%	16%	-1.92	-0,21	1.71	0.4275	
Cell						ZCLECA				
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

Example: CLEC-A Missed Installation Appointments (MIA) for Resale POTS

where $n_i = ILEC$ observations and $n_c = CLEC-A$ observations

Payout for CLEC-A is (99 units) * (\$300/unit) = <u>\$29,700</u>

if the above example represented performance for each of months 1 through 3 in a calendar quarter, then

Example: CLEC-A Missed Installation Appointments for 1Q00

State	Miss	Remedy Dollars
Month 1	X	\$29,700
Month 2	X	\$29,700
Month 3	X	\$29,700
1Q00		\$89,100

L,

Tier-3

Tier-3 uses the monthly CLEC Aggregate results in a given State. Tier-3 is triggered when five of the twelve Tier-3 sub-metrics experience consecutive failures in a given calendar quarter. The table below displays a situation that would trigger a Tier-3 failure, and one that would not.

			TIER-3 FAILU X = Mi	NOT A TIER-3 FAILURE X = Miss			
Process	Meesures	Jan	Feb	Mar	Jan	Feb	Mar
	Resale POTS	X	X	X	X		1
1	Resale Design	X			X	x	X
	UNE Loop & Port Combo		×		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
	UNE Loops	X	X	X			
	Resale POTS	X	X	X	X		X
	Resale Design		X	X		X	
	UNE Loop & Port Combo					X	X
	UNE Loops				X		
	Billing Accuracy	Х	X	X			
	Billing Timeliness				X	X	Х
	Percent Trunk Blockage	X	X	X	S		
	Percent Missed Collocation Due Dates				•		

Tier-3 is effective immediately after quarter results, and can only be lifted when two of the five failed sub-metrics show compliance for two consecutive months in the following quarter.

All tiers standalone, such that triggering Tier-3 will not cease payout of any Tier-1 or Tier-2 failures.

TIER-1 CALCULATION FOR BENCHMARKS:

- 1. For each CLEC, with five or more observations, calculate monthly performance results for the State.
- 2. CLECs having observations (sample sizes) between 5 and 30 will use Table I below. The only exception will be for Collocation Percent Missed Due Dates.

Comple	Envirolant	Envirolant	Comple	Controlant	Employed and
Sample			Sample		Equivalent
3128	Benchmerk	50%	JIZE	JU% Denehmerk	JJ% Depektionali
	Benchmark	Benchmark		Benchmark	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%
	L		27	81.48%	88.89%
			28	78.57%	89.29%
			29	79.31%	86.21%
			30	80.00%	86.67%

Table I Small Sample Size Table (95% Confidence)

- 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 CLEC₁ Volume.
- 6. Calculate the payment to CLEC-1 by multiplying the result of step 5. by the appropriate dollar amount from the fee schedule.

So, CLEC-1 payment = Affected Volume_{CLEC1} * \$\$ from Fee Schedule

Example: CLEC-1 Percent Missed Due Dates for Collocations

	n _c	Benchmark	MIAc	Volume	Affected
State	600	10%	13%	Proportion .03	Volume 18

Payout for CLEC-1 is (18 units) * (\$5000/unit) = <u>\$90,000</u>

TIER-1 CALCULATION FOR BENCHMARKS (in the form of a target):

- 1. For each, with five or more observations, CLEC calculate monthly performance results for the State.
- 2. CLECs 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 CLEC₁ Volume.
- 7. Calculate the payment to CLEC-1 by multiplying the result of step 6. by the appropriate dollar amount from the fee schedule.

So, CLEC-1 payment = Affected Volume_{CLEC1} * \$\$ from Fee Schedule

Example: CLEC-1 Reject Timeliness

	n _c	Benchmark	Reject Timeliness _c	Volume	Affected
State	600	95% within 1 hour	93% within 1 hour	.02	12

Payout for CLEC-1 is (12 units) • (\$100/unit) = \$1,200

TIER-2 CALCULATIONS for BENCHMARKS:

Tier-2 calculations for benchmark measures are the same as the Tier-1 benchmark calculations except the CLEC Aggregate data having failed for three months in a given calendar quarter is being assessed.

EXHIBIT E

**

LIQUIDATED DAMAGES TABLE FOR TIER-1 MEASURES

PER AFFECTED ITEM										
	Month 1	Month 2	Month3	Month4	Month 5	Month 6				
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				
IC Trunks	\$100	\$125	\$175	\$250	\$325	\$500				
Collocation	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000				

Table-2

VOLUNTARY PAYMENTS FOR TIER-2 MEASURES

	Per Affected Item
OSS	¢20
Pre-Ordering	\$20
Ordering	\$60
Provisioning	\$300
UNE Provisioning	\$975
(Coordinated Customer Conversions)	\$075
Maintenance and Repair	\$300
UNE Maintenance and Repair	\$875
Billing	\$1.00
LNP	\$500
IC Trunks	\$500
Collocation	\$15,000