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Guy M. Hicks
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REC'D TN
REGULATORY AUTH.
'00 SEP 25 PM 4 09
OFFICE OF THE
EXECUTIVE SECRETARY

September 22, 2000

Mr. David Waddell
Executive Secretary
Tennessee Regulatory Authority
460 James Robertson Parkway
Nashville, Tennessee 37243-0505

Re: *Approval of the Interconnection Agreement Negotiated by BellSouth Telecommunications, Inc. and Global Crossing Local Services, Inc. Pursuant to Sections 251 and 252 of the Telecommunications Act of 1996.*
Docket No. 00-00839

Dear Mr. Waddell:

Pursuant to Section 252(e) of the Telecommunications Act of 1996, Global Crossing Local Services, Inc. and BellSouth Telecommunications, Inc. are hereby submitting to the Tennessee Regulatory Authority the original and thirteen copies of the attached Petition for Approval of the Interconnection Agreement dated April 25, 2000.

Thank you for your attention to this matter.

Sincerely yours,

Guy M. Hicks

cc: Chris Poynter, Global Crossing Local Services, Inc.

#229814

BEFORE THE TENNESSEE REGULATORY AUTHORITY
Nashville, Tennessee

REC'D TN REGULATORY AUTH.
'00 SEP 25 PM 4 09
EXECUTIVE SECRETARY

In re: *Approval of the Interconnection Agreement Negotiated by BellSouth Telecommunications, Inc. and Global Crossing Local Services, Inc. Pursuant to Sections 251 and 252 of the Telecommunications Act of 1996*

Docket No. 00-00830

PETITION FOR APPROVAL OF THE INTERCONNECTION AGREEMENT NEGOTIATED BETWEEN BELLSOUTH TELECOMMUNICATIONS, INC. AND GLOBAL CROSSING LOCAL SERVICES, INC. PURSUANT TO THE TELECOMMUNICATIONS ACT OF 1996

COME NOW, Global Crossing Local Services, Inc. ("Global Crossing") and BellSouth Telecommunications, Inc., ("BellSouth"), and file this request for approval of the Interconnection Agreement (the "Agreement") negotiated between the two companies pursuant to Sections 251 and 252 of the Telecommunications Act of 1996, (the "Act"). In support of their request, Global Crossing and BellSouth state the following:

1. Global Crossing and BellSouth have recently negotiated an agreement for interconnection of their networks, the unbundling of specific network elements offered by BellSouth and the resale of BellSouth's telecommunications services to Global Crossing. A copy of the Agreement is attached hereto and incorporated herein by reference.

3. Pursuant to Section 252(e) of the Telecommunications Act of 1996, Global Crossing and BellSouth are submitting their Agreement to the TRA for its consideration and approval.

4. In accordance with Section 252(e) of the Act, the TRA is charged with approving or rejecting the negotiated Agreement between BellSouth and Global Crossing within 90 days of its submission. The Act provides that the TRA may only reject such an agreement if it finds that the agreement or any portion of the agreement discriminates

against a telecommunications carrier not a party to the agreement or the implementation of the agreement or any portion of the agreement is not consistent with the public interest, convenience and necessity.

5. Global Crossing and BellSouth aver that the Agreement is consistent with the standards for approval.

6. Pursuant to Section 252(i) of the Act, BellSouth shall make the Agreement available upon the same terms and conditions contained therein.

Global Crossing and BellSouth respectfully request that the TRA approve the Agreement negotiated between the parties.

This 25th day of Sept., 2000.

Respectfully submitted,

BELLSOUTH TELECOMMUNICATIONS, INC.

By: _____

Guy M. Hicks
333 Commerce Street, Suite 2101
Nashville, Tennessee 37201-3300
(615) 214-6301
Attorney for BellSouth

CERTIFICATE OF SERVICE

I, Guy M. Hicks, hereby certify that I have served a copy of the foregoing Petition for Approval of the Interconnection Agreement on the following via United States Mail on the 25th day of July, 2000.

Chris Poynter
Global Crossing Local Services, Inc.
180 South Clinton Avenue
Rodchester, New York 14646

Guy M. Hicks

#229813

AGREEMENT
BETWEEN
BELLSOUTH TELECOMMUNICATIONS INC.
AND
GLOBAL CROSSING LOCAL SERVICES, INC. AND GLOBAL CROSSING TELEMANAGEMENT, INC.

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AGREEMENT

THIS AGREEMENT is made by and between BellSouth Telecommunications, Inc., ("BellSouth"), a Georgia corporation, and Global Crossing Local Services, Inc. and Global Crossing Telemanagement, Inc. ("Global Crossing"), a Michigan corporation, and shall be deemed effective as of April 25, 2000. This Agreement may refer to either BellSouth or Global Crossing or both as a "Party" or "Parties."

WITNESSETH

WHEREAS, BellSouth is a local exchange telecommunications company authorized to provide telecommunications services in the states of Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina and Tennessee; and

WHEREAS, Global Crossing is or seeks to become an alternative local exchange telecommunications company ("CLEC") authorized to provide telecommunications services in the states of Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee; and

WHEREAS, the Parties wish to resell BellSouth's telecommunications services and/or interconnect their facilities, purchase network elements and other services, and exchange traffic specifically for the purposes of fulfilling their obligations pursuant to sections 251 and 252 of the Telecommunications Act of 1996 ("the Act").

NOW THEREFORE, in consideration of the mutual agreements contained herein, BellSouth and Global Crossing agree as follows:

1. Purpose

The Parties agree that the rates, terms and conditions contained within this Agreement, including all Attachments, comply and conform with each Parties' obligations under sections 251 and 252 of the Act. The resale, access and interconnection obligations contained herein enable Global Crossing to provide competing telephone exchange service to residential and business subscribers within the territory of BellSouth. The Parties agree that Global Crossing will not be considered to have offered telecommunications services to the public in any state within BellSouth's region until such time as it has ordered services for resale or interconnection facilities for the purposes of providing business and/or residential local exchange service to customers.

2. Term of the Agreement

2.1 The term of this Agreement shall be two years, beginning April 25, 2000 and shall apply to the state(s) of Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee. If as of the expiration of this Agreement, a Subsequent Agreement (as defined in Section 2.2 below) has not been executed by the Parties, this Agreement shall continue on a month-to-month basis while a Subsequent Agreement is being negotiated. The Parties' rights and obligations with respect to this Agreement after expiration shall be as set forth in Section 2.4 below.

2.2 The Parties agree that by no later than one hundred and eighty (180) days prior to the expiration of this Agreement, they shall commence negotiations with regard to the terms, conditions and prices of resale and/or local interconnection to be effective beginning on the expiration date of this Agreement ("Subsequent Agreement").

2.3 If, within one hundred and thirty-five (135) days of commencing the negotiation referred to in Section 2.2 above, the Parties are unable to satisfactorily negotiate new resale and/or local interconnection terms, conditions and prices, either Party may petition the Commission to establish appropriate local interconnection and/or resale arrangements pursuant to 47 U.S.C. 252. The Parties agree that, in such event, they shall encourage the Commission to issue its order regarding the appropriate local interconnection and/or resale arrangements no later than the expiration date of this Agreement. The Parties further agree that in the event the Commission does not issue its order prior to the expiration date of this Agreement, or if the Parties continue beyond the expiration date of this Agreement to negotiate the local interconnection and/or resale arrangements without Commission intervention, the terms, conditions and prices ultimately ordered by the Commission, or negotiated by the Parties, will be effective retroactive to the day following the expiration date of this Agreement.

2.4 Notwithstanding the foregoing, in the event that as of the date of expiration of this Agreement and conversion of this Agreement to a month-to-month term, the Parties have not entered into a Subsequent Agreement and either no arbitration proceeding has been filed in accordance with Section 2.3 above, or the Parties have not mutually agreed (where permissible) to extend the arbitration window for petitioning the applicable Commission(s) for resolution of those terms upon which the Parties have not agreed, then either Party may terminate this Agreement upon sixty (60) days notice to the other Party. In the event that BellSouth terminates this Agreement as provided above, BellSouth shall continue to offer services to Global Crossing pursuant to the terms, conditions and rates set forth in BellSouth's Statement of Generally Available Terms (SGAT) to the extent an SGAT has been approved by the applicable Commission(s). If any state Commission has not approved a BellSouth SGAT, then upon BellSouth's termination of this Agreement as provided herein, BellSouth will continue to

provide services to Global Crossing pursuant to BellSouth's then current standard interconnection agreement. In the event that the SGAT or BellSouth's standard interconnection agreement becomes effective as between the Parties, the Parties may continue to negotiate a Subsequent Agreement, and the terms of such Subsequent Agreement shall be effective retroactive to the day following expiration of this Agreement.

3. Ordering Procedures

3.1 Global Crossing shall provide BellSouth its Carrier Identification Code (CIC), Operating Company Number (OCN), Group Access Code (GAC) and Access Customer Name and Address (ACNA) code as applicable prior to placing its first order.

3.2 The Parties agree to adhere to the BellSouth Local Interconnection and Facility Based Ordering Guide and Resale Ordering Guide, as appropriate for the services ordered.

3.3 Global Crossing shall pay charges for Operational Support Systems (OSS) as set forth in this Agreement in Attachment 1 and/or in Attachment 2, 3, 5 and 7 as applicable.

4. Parity

When Global Crossing purchases, pursuant to Attachment 1 of this Agreement, telecommunications services from BellSouth for the purposes of resale to end users, BellSouth shall provide said services so that the services are equal in quality, subject to the same conditions, and provided within the same provisioning time intervals that BellSouth provides to its affiliates, subsidiaries and end users. To the extent technically feasible, the quality of a Network Element, as well as the quality of the access to such Network Element provided by BellSouth to Global Crossing shall be at least equal in quality to that which BellSouth provides to itself. The quality of the interconnection between the networks of BellSouth and the network of Global Crossing shall be at a level that is equal to that which BellSouth provides itself, a subsidiary, an Affiliate, or any other party. The interconnection facilities shall be designed to meet the same technical criteria and service standards that are used within BellSouth's network and shall extend to a consideration of service quality as perceived by end users and service quality as perceived by Global Crossing.

5. White Pages Listings

BellSouth shall provide Global Crossing and their customers access to white pages directory listings under the following terms:

5.1 Listings. Global Crossing shall provide all new, changed and deleted listings on a timely basis and BellSouth or its agent will include Global Crossing residential and business customer listings in the appropriate White Pages (residential and business) or alphabetical directories. Directory listings will make no distinction between Global Crossing and BellSouth subscribers.

5.2 Rates. BellSouth and Global Crossing will provide to each other subscriber primary listing information in the White Pages for a non-recurring charge.

5.3 Procedures for Submitting Global Crossing Subscriber Information are found in BellSouth's Ordering Guide for manually processed listings and in the Local Exchange Ordering Guide for mechanically submitted listings.

5.3.1 Notwithstanding any provision(s) to the contrary, Global Crossing agrees to provide to BellSouth, and BellSouth agrees to accept, Global Crossing's Subscriber Listing Information (SLI) relating to Global Crossing's customers in the geographic area(s) covered by this Interconnection Agreement. Global Crossing authorizes BellSouth to release all such Global Crossing SLI provided to BellSouth by Global Crossing to qualifying third parties via either license agreement or BellSouth's Directory Publishers Database Service (DPDS), General Subscriber Services Tariff, Section A38.2, as the same may be amended from time to time. Such CLEC SLI shall be intermingled with BellSouth's own customer listings of any other CLEC that has authorized a similar release of SLI. Where necessary, BellSouth will use good faith efforts to obtain state commission approval of any necessary modifications to Section A38.2 of its tariff to provide for release of third party directory listings, including modifications regarding listings to be released pursuant to such tariff and BellSouth's liability therunder. BellSouth's obligation pursuant to this Section shall not arise in any particular state until the commission of such state has approved modifications to such tariff.

5.3.2 No compensation shall be paid to Global Crossing for BellSouth's receipt of Global Crossing
SLI, or for the subsequent release to third parties of such SLI. In addition, to the extent BellSouth incurs costs on an ongoing basis to administer the release of Global Crossing SLI, Global Crossing shall pay to BellSouth its proportionate share of the reasonable costs associated therewith.

5.3.3 BellSouth shall not be liable for the content or accuracy of any SLI provided by Global Crossing under this Agreement. Global Crossing shall indemnify, hold harmless and defend BellSouth from and against any damages, losses, liabilities, demands claims, suits, judgments, costs and expenses (including but not limited to reasonable attorneys' fees and expenses) arising from BellSouth's tariff obligations or otherwise and resulting from or arising out of any third party's claim of inaccurate Global Crossing listings or use of the SLI provided pursuant to this Agreement. BellSouth shall forward to Global Crossing any complaints

received by BellSouth relating to the accuracy or quality of Global Crossing listings.

5.3.4 Listings and subsequent updates will be released consistent with BellSouth system changes and/or update scheduling requirements.

5.4 Unlisted/Non-Published Subscribers. Global Crossing will be required to provide to BellSouth the names, addresses and telephone numbers of all Global Crossing customers that wish to be omitted from directories.

5.5 Inclusion of Global Crossing Customers in Directory Assistance Database. BellSouth will include and maintain Global Crossing subscriber listings in BellSouth's Directory Assistance databases at no recurring charge and Global Crossing shall provide such Directory Assistance listings at no recurring charge. BellSouth and Global Crossing will formulate appropriate procedures regarding lead-time, timeliness, format and content of listing information.

5.6 Listing Information Confidentiality. BellSouth will accord Global Crossing's directory listing information the same level of confidentiality that BellSouth accords its own directory listing information, and BellSouth shall limit access to Global Crossing's customer proprietary confidential directory information to those BellSouth employees who are involved in the preparation of listings.

5.7 Optional Listings. Additional listings and optional listings will be offered by BellSouth at tariffed rates as set forth in the General Subscriber Services Tariff.

5.8 Delivery. BellSouth or its agent shall deliver White Pages directories to Global Crossing subscribers at no charge or as specified in a separate BAPCO agreement.

6. Bona Fide Request/New Business Request Process for Further Unbundling

If Global Crossing is a facilities based provider or a facilities based and resale provider, this section shall apply. BellSouth shall, upon request of Global Crossing, provide to Global Crossing access to its network elements at any technically feasible point for the provision of Global Crossing's telecommunications service where such access is necessary and failure to provide access would impair the ability of Global Crossing to provide services that it seeks to offer. Any request by Global Crossing for access to a network element, interconnection option, or for the provisioning of any service or product that is not already available shall be treated as a Bona Fide Request/New Business Request, and shall be submitted to BellSouth pursuant to the Bona Fide Request/New Business Request process set forth following.

6.1 A Bona Fide Request/New Business Request shall be submitted in writing to Global Crossing's Account Manager by Global Crossing and shall specifically identify the requested service date, technical requirements, space requirements

and/or such specifications that clearly define the request such that BellSouth has sufficient information to analyze and prepare a response. Such a request also shall include Global Crossing's designation of the request as being (i) pursuant to the Telecommunications Act of 1996 or (ii) pursuant to the needs of the business.

7. Court Ordered Requests for Call Detail Records and Other Subscriber Information

7.1 To the extent technically feasible, BellSouth maintains call detail records for Global Crossing end users for limited time periods and can respond to subpoenas and court ordered requests for this information. BellSouth shall maintain such information for Global Crossing end users for the same length of time it maintains such information for its own end users.

7.2 Global Crossing agrees that BellSouth will respond to subpoenas and court ordered requests delivered directly to BellSouth for the purpose of providing call detail records when the targeted telephone numbers belong to Global Crossing end users. Billing for such requests will be generated by BellSouth and directed to the law enforcement agency initiating the request.

7.3 Where BellSouth is providing to Global Crossing telecommunications services for resale or providing to Global Crossing the local switching function, then Global Crossing agrees that in those cases where Global Crossing receives subpoenas or court ordered requests regarding targeted telephone numbers belonging to Global Crossing end users, if Global Crossing does not have the requested information, Global Crossing will advise the law enforcement agency initiating the request to redirect the subpoena or court ordered request to BellSouth. Where the request has been forwarded to BellSouth, billing for call detail information will be generated by BellSouth and directed to the law enforcement agency initiating the request.

7.4 In all other instances, Global Crossing will provide Global Crossing end user and/or other customer information that is available to Global Crossing in response to subpoenas and court orders for their own customer records. When BellSouth receives subpoenas or court ordered requests regarding targeted telephone numbers belonging to Global Crossing end users, BellSouth will advise the law enforcement agency initiating the request to redirect the subpoena or court ordered request to Global Crossing.

8. Liability and Indemnification

8.1 BellSouth Liability. BellSouth shall take financial responsibility for its own actions in causing, or its lack of action in preventing, unbillable or uncollectible Global Crossing revenues.

8.2 Global Crossing Liability. In the event that Global Crossing consists of two (2) or more separate e[illegible]orth in the preamble to this Agreement, all such

entities shall be jointly and severally liable for the obligations of Global Crossing under this Agreement.

8.3 Liability for Acts or Omissions of Third Parties. Neither BellSouth nor Global Crossing shall be liable for any act or omission of another telecommunications company providing a portion of the services provided under this Agreement.

8.4 Limitation of Liability.

8.4.1 Each Party's liability to the other for any loss, cost, claim, injury or liability or expense, including reasonable attorney's fees relating to or arising out of any negligent act or omission in its performance of this Agreement whether in contract or in tort, shall be limited to a credit for the actual cost of the services or functions not performed or improperly performed.

8.4.2 Limitations in Tariffs. A Party may, in its sole discretion, provide in its tariffs and contracts with its Customer and third parties that relate to any service, product or function provided or contemplated under this Agreement, that to the maximum extent permitted by Applicable Law, such Party shall not be liable to Customer or third Party for (i) any Loss relating to or arising out of this Agreement, whether in contract, tort or otherwise, that exceeds the amount such Party would have charged that applicable person for the service, product or function that gave rise to such Loss and (ii) Consequential Damages. To the extent that a Party elects not to place in its tariffs or contracts such limitations of liability, and the other Party incurs a Loss as a result thereof, such Party shall indemnify and reimburse the other Party for that portion of the Loss that would have been limited had the first Party included in its tariffs and contracts the limitations of liability that such other Party included in its own tariffs at the time of such Loss.

8.4.3 Neither BellSouth nor Global Crossing shall be liable for damages to the other's terminal location, POI or other company's customers' premises resulting from the furnishing of a service, including, but not limited to, the installation and removal of equipment or associated wiring, except to the extent caused by a company's negligence or willful misconduct or by a company's failure to properly ground a local loop after disconnection.

8.4.4 Under no circumstance shall a Party be responsible or liable for indirect, incidental, or consequential damages, including, but not limited to, economic loss or lost business or profits, damages arising from the use or performance of equipment or software, or the loss of use of software or equipment, or accessories attached thereto, delay, error, or loss of data. In connection with this limitation of liability, each Party recognizes that the other Party may, from time to time, provide advice, make recommendations, or supply other analyses related to the Services, or facilities described in this Agreement, and, while each Party shall use diligent efforts in this regard, the Parties acknowledge and agree that this

limitation of liability shall apply to provision of such advice, recommendations, and analyses.

8.5 Indemnification for Certain Claims. The Party providing services hereunder, its affiliates and its parent company, shall be indemnified, defended and held harmless by the Party receiving services hereunder against any claim, loss or damage arising from the receiving company's use of the services provided under this Agreement pertaining to (1) claims for libel, slander or invasion of privacy arising from the content of the receiving company's own communications, or (2) any claim, loss or damage claimed by the customer of the Party receiving services arising from such company's use or reliance on the providing company's services, actions, duties, or obligations arising out of this Agreement.

8.6 Disclaimer. EXCEPT AS SPECIFICALLY PROVIDED TO THE CONTRARY IN THIS AGREEMENT, NEITHER PARTY MAKES ANY REPRESENTATIONS OR WARRANTIES TO THE OTHER PARTY CONCERNING THE SPECIFIC QUALITY OF ANY SERVICES, OR FACILITIES PROVIDED UNDER THIS AGREEMENT. THE PARTIES DISCLAIM, WITHOUT LIMITATION, ANY WARRANTY OR GUARANTEE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING, OR FROM USAGES OF TRADE.

9. Intellectual Property Rights and Indemnification

9.1 No License. No patent, copyright, trademark or other proprietary right is licensed, granted or otherwise transferred by this Agreement. Global Crossing is strictly prohibited from any use, including but not limited to in sales, in marketing or advertising of telecommunications services, of any BellSouth name, service mark or trademark.

9.2 Ownership of Intellectual Property. Any intellectual property which originates from or is developed by a Party shall remain in the exclusive ownership of that Party. Except for a limited license to use patents or copyrights to the extent necessary for the Parties to use any facilities or equipment (including software) or to receive any service solely as provided under this Agreement, no license in patent, copyright, trademark or trade secret, or other proprietary or intellectual property right now or hereafter owned, controlled or licensable by a Party, is granted to the other Party or shall be implied or arise by estoppel. It is the responsibility of each Party to ensure at no additional cost to the other Party that it has obtained any necessary licenses in relation to intellectual property of third Parties used in its network that may be required to enable the other Party to use any facilities or equipment (including software), to receive any service, or to perform its respective obligations under this Agreement.

9.3 Indemnification. The Party providing a service pursuant to this Agreement will defend the Party receiving such service or data provided as a result of such service against claims of infringement arising solely from the use by the receiving Party of such service and will indemnify the receiving Party for any damages awarded based solely on such claims in accordance with Section 8 of this Agreement.

9.4 Claim of Infringement. In the event that use of any facilities or equipment (including software), becomes, or in reasonable judgment of the Party who owns the affected network is likely to become, the subject of a claim, action, suit, or proceeding based on intellectual property infringement, then said Party shall promptly and at its sole expense, but subject to the limitations of liability set forth below:

9.4.1 modify or replace the applicable facilities or equipment (including software) while maintaining form and function, or

9.4.2 obtain a license sufficient to allow such use to continue.

9.4.3 In the event 9.4.1 or 9.4.2 are commercially unreasonable, then said Party may, terminate, upon reasonable notice, this contract with respect to use of, or services provided through use of, the affected facilities or equipment (including software), but solely to the extent required to avoid the infringement claim.

9.5 Exception to Obligations. Neither Party's obligations under this Section shall apply to the extent the infringement is caused by: (i) modification of the facilities or equipment (including software) by the indemnitee; (ii) use by the indemnitee of the facilities or equipment (including software) in combination with equipment or facilities (including software) not provided or authorized by the indemnitor provided the facilities or equipment (including software) would not be infringing if used alone; (iii) conformance to specifications of the indemnitee which would necessarily result in infringement; or (iv) continued use by the indemnitee of the affected facilities or equipment (including software) after being placed on notice to discontinue use as set forth herein.

9.6 Exclusive Remedy. The foregoing shall constitute the Parties' sole and exclusive remedies and obligations with respect to a third party claim of intellectual property infringement arising out of the conduct of business under this Agreement.

10. Proprietary and Confidential Information

10.1 Proprietary and Confidential Information: Defined. It may be necessary for BellSouth and Global Crossing, each as the "Discloser," to provide to the other party, as "Recipient," certain proprietary and confidential information(including trade secret information) including but not limited to technical, financial, marketing, staffing and business plans and information [illegible] information, ,

proposals, request for proposals, specifications, drawings, prices, costs, proeedures, processes, business systems, software programs, techniques, customer account data, call detail records and like information (collectively the Discloser's"Information"). All Information shall be provided to Recipient in written or other tangible or electronic form, clearly marked with a confidential and, proprietary notice . Information orally or visually provided to Recipient must be designated by Discloser as confidential and proprietary at the time of such disclosure and must be reduced to writing marked with a confidential and proprietary notice and provided to Recipient within thirty (30) calendar days after such oral or visual disclosure.

10.2 Use and Protection of Information. Recipient shall use the Information solely for the purpose(s) of performing this Agreement, and Recipient shall protect Information from any use, distribution or disclosure except as permitted hereunder. Recipient will use the same standard of care to protect Information as Recipient uses to protect its own similar confidential and proprietary information, but not less than a reasonable standard of care. Recipient may disclose Information solely to the Authorized Representatives of the Recipient who (a) have a substantive need to know such Information in connection with performance of the Agreement; (b) have been advised of the confidential and proprietary nature of the Information; and (c) have personally agreed in writing to protect from unauthorized disclosure all confidential and proprietary information, of whatever source, to which they have access in the course of their employment. "Authorized Representatives" are the officers, directors and employees of Recipient and its Affiliates, as well as Recipient's and its Affiliates' consultants, contractors, counsel and agents. " Affiliates" means any company that is owned in whole or in part, now or in the future, directly or indirectly through a subsidiary, by a party hereto.

10.3 Ownership, Copying & Return of Information. Information remains at all times the property of Discloser. Recipient may make tangible or electronic copies, notes, summaries or extracts of Information only as necessary for use as authorized herein. All such tangible or electronic copies, notes, summaries or extracts must be marked with the same confidential and proprietary notice as appears on the original. Upon Discloser's request, all or any requested portion of the Information (including, but not limited to, tangible and electronic copies, notes, summaries or extracts of any information) will be promptly returned to Discloser or destroyed , and Recipient will provide Discloser with written certification stating that such Information has been returned or destroyed.

10.4 Exceptions . Discloser's Information does not include: (a) any information publicly disclosed by Discloser; (b) any information Discloser in writing authorizes Recipient to disclose without restriction; (c) any information already lawfully known to Recipient at the time it is disclosed by the Discloser, without an obligation to keep confidential; or (d) any information Recipient lawfully obtains from any source other than Discloser, provided that such source lawfully

disclosed and/or independently developed such information. If Recipient is required to provide Information to any court or government agency pursuant to written court order, subpoena, regulation or process of law, Recipient must first provided Discloser with prompt written notice of such requirement and cooperate with Discloser to appropriately protect against or limit the scope of such disclosure. To the fullest extent permitted by law, Recipient will continue to protect as confidential and proprietary all Information disclosed in response to a written court order, subpoena, regulation or process of law.

10.5 Equitable Relief. Recipient acknowledges and agrees that any breach or threatened breach of this Agreement is likely to cause Discloser irreparable harm for which money damages may not be an appropriate or sufficient remedy. Recipient therefore agrees that Discloser or its Affiliates, as the case may be, are entitled to receive injunctive or other equitable relief to remedy or prevent any breach or threatened breach of this Agreement. Such remedy is not the exclusive remedy for any breach or threatened breach of this Agreement, but is in addition to all other rights and remedies available at law or in equity.

10.6 Survival of Confidentiality Obligations. The parties' rights and obligations under this Section 10 shall survive and continue in effect until two (2) years after the expiration or termination date of this Agreement with regard to all Information exchanged during the term of this Agreement. Thereafter, the parties' rights and obligations hereunder survive and continue in effect with respect to any Information that is a trade secret under applicable law.

11. Assignments

Any assignment by either Party to any non-affiliated entity of any right, obligation or duty, or of any other interest hereunder, in whole or in part, without the prior written consent of the other Party shall be void. A Party may assign this Agreement or any right, obligation, duty or other interest hereunder to an Affiliate company of the Party without the consent of the other Party. All obligations and duties of any Party under this Agreement shall be binding on all successors in interest and assigns of such Party. No assignment or delegation hereof shall relieve the assignor of its obligations under this Agreement in the event that the assignee fails to perform such obligations.

12. Resolution of Disputes

Except as otherwise stated in this Agreement, the Parties agree that if any dispute arises as to the interpretation of any provision of this Agreement or as to the proper implementation of this Agreement, either Party may petition the Commission for a resolution of the dispute. However, each Party reserves any rights it may have to seek judicial review of any ruling made by the Commission concerning this Agreement.

13. Taxes

13.1 Definition. For purposes of this Section, the terms "taxes" and "fees" shall include but not limited to federal, state or local sales, use, excise, gross receipts or other taxes or tax-like fees of whatever nature and however designated (including tariff surcharges and any fees, charges or other payments, contractual or otherwise, for the use of public streets or rights of way, whether designated as franchise fees or otherwise) imposed, or sought to be imposed, on or with respect to the services furnished hereunder or measured by the charges or payments therefore, excluding any taxes levied on income.

13.2 Taxes and Fees Imposed Directly On Either Providing Party or Purchasing Party.

13.2.1 Taxes and fees imposed on the providing Party, which are not permitted or required to be passed on by the providing Party to its customer, shall be borne and paid by the providing Party.

13.2.2 Taxes and fees imposed on the purchasing Party, which are not required to be collected and/or remitted by the providing Party, shall be borne and paid by the purchasing Party.

13.3 Taxes and Fees Imposed on Purchasing Party But Collected And Remitted By Providing Party.

13.3.1 Taxes and fees imposed on the purchasing Party shall be borne by the purchasing Party, even if the obligation to collect and/or remit such taxes or fees is placed on the providing Party.

13.3.2 To the extent permitted by applicable law, any such taxes and/or fees shall be shown as separate items on applicable billing documents between the Parties. Notwithstanding the foregoing, the purchasing Party shall remain liable for any such taxes and fees regardless of whether they are actually billed by the providing Party at the time that the respective service is billed.

13.3.3 If the purchasing Party determines that in its opinion any such taxes or fees are not payable, the providing Party shall not bill such taxes or fees to the purchasing Party if the purchasing Party provides written certification, reasonably satisfactory to the providing Party, stating that it is exempt or otherwise not subject to the tax or fee, setting forth the basis therefor, and satisfying any other requirements under applicable law. If any authority seeks to collect any such tax or fee that the purchasing Party has determined and certified not to be payable, or any such tax or fee that was not billed by the providing Party, the purchasing Party may contest the same in good faith, at its own expense. In any such contest, the purchasing Party shall promptly furnish the providing Party with copies of all filings in any proceeding, protest, or legal challenge, all rulings issued in connection therewith, and all correspondence between the purchasing Party and the taxing authority.

13.3.4 In the event that all or any portion of an amount sought to be collected must be paid in order to contest the imposition of any such tax or fee, or to avoid the existence of a lien on the assets of the providing Party during the pendency of such contest, the purchasing Party shall be responsible for such payment and shall be entitled to the benefit of any refund or recovery.

13.3.5 If it is ultimately determined that any additional amount of such a tax or fee is due to the imposing authority, the purchasing Party shall pay such additional amount, including any interest and penalties thereon.

13.3.6 Notwithstanding any provision to the contrary, the purchasing Party shall protect, indemnify and hold harmless (and defend at the purchasing Party's expense) the providing Party from and against any such tax or fee, interest or penalties thereon, or other charges or payable expenses (including reasonable attorney fees) with respect thereto, which are incurred by the providing Party in connection with any claim for or contest of any such tax or fee.

13.3.7 Each Party shall notify the other Party in writing of any assessment, proposed assessment or other claim for any additional amount of such a tax or fee by a taxing authority; such notice to be provided, if possible, at least ten (10) days prior to the date by which a response, protest or other appeal must be filed, but in no event later than thirty (30) days after receipt of such assessment, proposed assessment or claim.

13.4 Taxes and Fees Imposed on Providing Party But Passed On To Purchasing Party.

13.4.1 Taxes and fees imposed on the providing Party, which are permitted or required to be passed on by the providing Party to its customer, shall be borne by the purchasing Party.

13.4.2 To the extent permitted by applicable law, any such taxes and/or fees shall be shown as separate items on applicable billing documents between the Parties. Notwithstanding the foregoing, the purchasing Party shall remain liable for any such taxes and fees regardless of whether they are actually billed by the providing Party at the time that the respective service is billed.

13.4.3 If the purchasing Party disagrees with the providing Party's determination as to the application or basis for any such tax or fee, the Parties shall consult with respect to the imposition and billing of such tax or fee. Notwithstanding the foregoing, the providing Party shall retain ultimate responsibility for determining whether and to what extent any such taxes or fees are applicable, and the purchasing Party shall abide by such determination and pay such taxes or fees to the providing Party. The providing Party shall further retain ultimate responsibility for determining whether and how to contest the imposition of such

taxes and fees; provided, however, that any such contest undertaken at the request of the purchasing Party shall be at the purchasing Party's expense.

13.4.4 In the event that all or any portion of an amount sought to be collected must be paid in order to contest the imposition of any such tax or fee, or to avoid the existence of a lien on the assets of the providing Party during the pendency of such contest, the purchasing Party shall be responsible for such payment and shall be entitled to the benefit of any refund or recovery.

13.4.5 If it is ultimately determined that any additional amount of such a tax or fee is due to the imposing authority, the purchasing Party shall pay such additional amount, including any interest and penalties thereon.

13.4.6 Notwithstanding any provision to the contrary, the purchasing Party shall protect indemnify and hold harmless (and defend at the purchasing Party's expense) the providing Party from and against any such tax or fee, interest or penalties thereon, or other reasonable charges or payable expenses (including reasonable attorney fees) with respect thereto, which are incurred by the providing Party in connection with any claim for or contest of any such tax or fee.

13.4.7 Each Party shall notify the other Party in writing of any assessment, proposed assessment or other claim for any additional amount of such a tax or fee by a taxing authority; such notice to be provided, if possible, at least ten (10) days prior to the date by which a response, protest or other appeal must be filed, but in no event later than thirty (30) days after receipt of such assessment, proposed assessment or claim.

13.5 Mutual Cooperation. In any contest of a tax or fee by one Party, the other Party shall cooperate fully by providing records, testimony and such additional information or assistance as may reasonably be necessary to pursue the contest. Further, the other Party shall be reimbursed for any reasonable and necessary out-of-pocket copying and travel expenses incurred in assisting in such contest.

14. Force Majeure

In the event performance of this Agreement, or any obligation hereunder, is either directly or indirectly prevented, restricted, or interfered with by reason of fire, flood, earthquake or like acts of God, wars, revolution, civil commotion, explosion, acts of public enemy, embargo, acts of the government in its sovereign capacity, labor difficulties, including without limitation, strikes, slowdowns, picketing, or boycotts, unavailability of equipment from vendor, changes requested by Customer, or any other circumstances beyond the reasonable control and without the fault or negligence of the Party affected, the Party affected, upon giving prompt notice to the other Party, shall be excused from such performance on a day-to-day basis to the extent of such prevention, restriction, or interference (and the other Party shall likewise be excused from performance of its obligations

on a day-to-day basis until the delay, restriction or interference has ceased); provided however, that the Party so affected shall use diligent efforts to avoid or remove such causes of non-performance and both Parties shall proceed whenever such causes are removed or cease.

15. Year 2000 Compliance

Each Party warrants that it has implemented a program the goal of which is to ensure that all software, hardware and related materials (collectively called "Systems") delivered, connected with BellSouth or supplied in the furtherance of the terms and conditions specified in this Agreement: (i) will record, store, process and display calendar dates falling on or after January 1, 2000, in the same manner, and with the same functionality as such software records, stores, processes and calendar dates falling on or before December 31, 1999; and (ii) shall include without limitation date data century recognition, calculations that accommodate same century and multicentury formulas and date values, and date data interface values that reflect the century.

16. Modification of Agreement

16.1 BellSouth shall make available, pursuant to 47 USC § 252 and the FCC rules and regulations regarding such availability, to Global Crossing any interconnection, service, or network element provided under any other agreement filed and approved pursuant to 47 USC § 252. The Parties shall adopt all rates, terms and conditions concerning such other interconnection, service or network element and any other rates, terms and conditions that are interrelated or were negotiated in exchange for or in conjunction with the interconnection, service or network element being adopted. The adopted interconnection, service, or network element and agreement shall apply to the same states as such other agreement and for the identical term of such other agreement.

16.2 If Global Crossing changes its name or makes changes to its company structure or identity due to a merger, acquisition, transfer or any other reason, it is the responsibility of Global Crossing to notify BellSouth of said change and request that an amendment to this Agreement, if necessary, be executed to reflect said change.

16.3 No modification, amendment, supplement to, or waiver of the Agreement or any of its provisions shall be effective and binding upon the Parties unless it is made in writing and duly signed by the Parties.

16.4 Execution of this Agreement by either Party does not confirm or infer that the executing Party agrees with any decision(s) issued pursuant to the Telecommunications Act of 1996 and the consequences of those decisions on specific language in this Agreement. Neither Party waives its rights to appeal or otherwise challenge any such decision(s) and each Party reserves all of its rights to

pursue any and all legal and/or equitable remedies, including appeals of any such decision(s).

16.5 In the event that any effective legislative, regulatory, judicial or other legal action materially affects any material terms of this Agreement, or the ability of Global Crossing or BellSouth to perform any material terms of this Agreement, Global Crossing or BellSouth may, on thirty (30) days' written notice require that such terms be renegotiated, and the Parties shall renegotiate in good faith such mutually acceptable new terms as may be required. In the event that such new terms are not renegotiated within ninety (90) days after such notice, the Dispute shall be referred to the Dispute Resolution procedure set forth in Section 12.

16.6 If any provision of this Agreement, or the application of such provision to either Party or circumstance, shall be held invalid, the remainder of the Agreement, or the application of any such provision to the Parties or circumstances other than those to which it is held invalid, shall not be effective thereby, provided that the Parties shall attempt to reformulate such invalid provision to give effect to such portions thereof as may be valid without defeating the intent of such provision.

17. Waivers

A failure or delay of either Party to enforce any of the provisions hereof, to exercise any option which is herein provided, or to require performance of any of the provisions hereof shall in no way be construed to be a waiver of such provisions or options, and each Party, notwithstanding such failure, shall have the right thereafter to insist upon the specific performance of any and all of the provisions of this Agreement.

18. Governing Law

This Agreement shall be governed by, and construed and enforced in accordance with, the laws of the State of Georgia, without regard to its conflict of laws principles.

19. Arm's Length Negotiations

This Agreement was executed after arm's length negotiations between the undersigned Parties and reflects the conclusion of the undersigned that this Agreement is in the best interests of all Parties.

20. Notices

20.1 Every notice, consent, approval, or other communications required or contemplated by this Agreement shall be in writing and shall be delivered in person or given by postage prepaid mail, address to:

BellSouth Telecommunications, Inc.

CLEC Account Team
9th Floor
600 North 19th Street
Birmingham, Alabama 35203

and

General Attorney - COU
Suite 4300
675 W. Peachtree St.
Atlanta, GA 30375

Global Crossing Local Services, Inc. and Global Crossing Telemanagment, Inc.

Chris Poynter
180 South Clinton Avenue
Rodchester, New York 14646

or at such other address as the intended recipient previously shall have designated by written notice to the other Party.

20.2 Where specifically required, notices shall be by certified or registered mail. Unless otherwise provided in this Agreement, notice by mail shall be effective on the date it is officially recorded as delivered by return receipt or equivalent, and in the absence of such record of delivery, it shall be presumed to have been delivered the fifth day, or next business day after the fifth day, after it was deposited in the mails.

20.3 BellSouth shall provide Global Crossing notice via Internet posting of price changes and of changes to the terms and conditions of services available for resale.

21. Rule of Construction

No rule of construction requiring interpretation against the drafting Party hereof shall apply in the interpretation of this Agreement.

22. Headings of No Force or Effect

The headings of Articles and Sections of this Agreement are for convenience of reference only, and shall in no way define, modify or restrict the meaning or interpretation of the terms or provisions of this Agreement.

23. **Multiple Counterparts**

This Agreement may be executed multiple counterparts, each of which shall be deemed an original, but all of which shall together constitute but one and the same document.

24. **Implementation of Agreement**

If Global Crossing is a facilities based provider or a facilities based and resale provider, this section shall apply. Within 60 days of the execution of this Agreement, the Parties will adopt a schedule for the implementation of the Agreement. The schedule shall state with specificity time frames for submission of including but not limited to, network design, interconnection points, collocation arrangement requests, pre-sales testing and full operational time frames for the business and residential markets. An implementation template to be used for the implementation schedule is contained in Attachment 10 of this Agreement.

25. **Filing of Agreement**

Upon execution of this Agreement it shall be filed with the appropriate state regulatory agency pursuant to the requirements of Section 252 of the Act. If the regulatory agency imposes any filing or public interest notice fees regarding the filing or approval of the Agreement, Global Crossing shall be responsible for publishing the required notice and the publication and/or notice costs shall be borne by Global Crossing.

26. **Entire Agreement**

This Agreement and its Attachments, incorporated herein by this reference, sets forth the entire understanding and supersedes prior Agreements between the Parties relating to the subject matter contained herein and merges all prior discussions between them, and neither Party shall be bound by any definition, condition, provision, representation, warranty, covenant or promise other than as expressly stated in this Agreement or as is contemporaneously or subsequently set forth in writing and executed by a duly authorized officer or representative of the Party to be bound thereby.

This Agreement may include attachments with provisions for the following services:

Network Elements and Other Services
Local Interconnection
Resale
Collocation

The following services are included as options for purchase by Global Crossing. Global Crossing shall elect said services by written request to its Account Manager if applicable.
Optional Daily Usage File (ODUF)
Enhanced Optional Daily Usage File (EODUF)
Access Daily Usage File (ADUF)
Line Information Database (LIDB) Storage
Centralized Message Distribution Service (CMDS)
Calling Name (CNAM)

IN WITNESS WHEREOF, the Parties have executed this Agreement the day and year above first written.

BellSouth Telecommunications, Inc.	**Global Crossing Local Services, Inc. and Global Crossing Telemanagment, Inc.**
Signature	Signature
Jerry D. Hendrix	
Name	Name
Sr. Director – Interconnection Services	
Title	Title
4/25/00	
Date	Date

Definitions

Affiliate is defined as a person that (directly or indirectly) owns or controls, is owned or controlled by, or is under common ownership or control with, another person. For purposes of this paragraph, the term "own" means to own an equity interest (or equivalent thereof) of more than 10 percent.

Centralized Message Distribution System is the Telcordia (formerly BellCore) administered national system, based in Kansas City, Missouri, used to exchange Exchange Message Interface (EMI) formatted data among host companies.

Commission is defined as the appropriate regulatory agency in each of BellSouth's nine state region, Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee.

Daily Usage File is the compilation of messages or copies of messages in standard Exchange Message Interface (EMI) format exchanged from BellSouth to a CLEC.

Exchange Message Interface is the nationally administered standard format for the exchange of data among the Exchange Carriers within the telecommunications industry.

Information Service means the offering of a capability for generating, acquiring, storing, transforming, processing, retrieving, utilizing, or making available information via telecommunications, and includes electronic publishing, but does not include any use of any such capability for the management, control, or operation of a telecommunications system or the management of a telecommunications service.

Intercompany Settlements (ICS) is the revenue associated with charges billed by a company other than the company in whose service area such charges were incurred. ICS on a national level includes third number and credit card calls and is administered by Telcordia (formerly BellCore)'s Calling Card and Third Number Settlement System (CATS). Included is traffic that originates in one Regional Bell Operating Company's (RBOC) territory and bills in another RBOC's territory.

Intermediary function is defined as the delivery of traffic from Global Crossing; a CLEC other than Global Crossing or another telecommunications carrier through the network of BellSouth or Global Crossing to an end user of Global Crossing; a CLEC other than Global Crossing or another telecommunications carrier.

Local Interconnection is defined as 1) the delivery of local traffic to be terminated on each Party's local network so that end users of either Party have the ability to reach end users of the other Party without the use of any access code or substantial delay in the processing of the call; 2) the LEC network features, functions, and capabilities set forth in this Agreement; and 3) Service Provider Number Portability sometimes referred to as temporary telephone number portability to be implemented pursuant to the terms of this Agreeme...

Local Traffic is defined as any telephone call that originates in one exchange and terminates in either the same exchange, or other local calling area associated with the originating exchange as defined and specified in Section A3 of BellSouth's General Subscriber Service Tariff. As clarification of this definition and for reciprocal transport and termination compensation, Local Traffic does not include traffic that originates from or is directed to or through an enhanced service provider or information service provider. As further clarification, Local Traffic does not include calls that do not transmit information of the user's choosing. In any event, neither Party will pay reciprocal compensation to the other if the "traffic" to which such reciprocal compensation would otherwise apply was generated, in whole or in part, for the purpose of creating an obligation on the part of the originating carrier to pay reciprocal compensation for such traffic.

Message Distribution is routing determination and subsequent delivery of message data from one company to another. Also included is the interface function with CMDS, where appropriate.

Multiple Exchange Carrier Access Billing ("MECAB") means the document prepared by the Billing Committee of the Ordering and Billing Forum ("OBF:), which functions under the auspices of the Carrier Liaison Committee of the Alliance for Telecommunications Industry Solutions ("ATIS") and by Telcordia (formerly BellCore) as Special Report SR-BDS-000983, Containing the recommended guidelines for the billing of Exchange Service access provided by two or more LECs and/or CLECs or by one LEC in two or more states within a single LATA.

Network Element is defined to mean a facility or equipment used in the provision of a telecommunications service. Such term may include, but is not limited to, features, functions, and capabilities that are provided by means of such facility or equipment, including but not limited to, subscriber numbers, databases, signaling systems, and information sufficient for billing and collection or used in the transmission, routing, or other provision of a telecommunications service. BellSouth offers access to the Network Elements, unbundled loops; network interface device; sub-loop elements; local switching; transport; tandem switching; operator systems; signaling; access to call-related databases; dark fiber as set forth in Attachment 2 of this Agreement.

Non-Intercompany Settlement System (NICS) is the Telcordia (formerly BellCore) system that calculates non-intercompany settlements amounts due from one company to another within the same RBOC region. It includes credit card, third number and collect messages.

Percent of Interstate Usage (PIU) is defined as a factor to be applied to terminating access services minutes of use to obtain those minutes that should be rated as interstate access services minutes of use. The numerator includes all interstate "non-intermediary" minutes of use, including interstate minutes of use that are forwarded due to service provider number portability less any interstate minutes of use for Terminating Party Pays services, such as 800 Services. The denominator includes all "non-intermediary", local, interstate, intrastate, toll and access minutes of use adjusted for service provider number portability less all minutes attributable to terminating Party pays services.

Percent Local Usage (PLU) is defined as a factor to be applied to intrastate terminating minutes of use. The numerator shall include all "non-intermediary" local minutes of use adjusted for those minutes of use that only apply local due to Service Provider Number Portability. The denominator is the total intrastate minutes of use including local, intrastate toll, and access, adjusted for Service Provider Number Portability less intrastate terminating Party pays minutes of use.

Revenue Accounting Office (RAO) Status Company is a local exchange company/alternate local exchange company that has been assigned a unique RAO code. Message data exchanged among RAO status companies is grouped (i.e. packed) according to From/To/Bill RAO combinations.

Service Control Points ("SCPs") are defined as databases that store information and have the ability to manipulate data required to offer particular services.

Signal Transfer Points ("STPs") are signaling message switches that interconnect Signaling Links to route signaling messages between switches and databases. STPs enable the exchange of Signaling System 7 ("SS7") messages between switching elements, database elements and STPs. STPs provide access to various BellSouth and third party network elements such as local switching and databases.

Signaling links are dedicated transmission paths carrying signaling messages between carrier switches and signaling networks. Signal Link Transport is a set of two or four dedicated 56 kbps transmission paths between Global Crossing designated Signaling Points of Interconnection that provide a diverse transmission path and cross connect to a BellSouth Signal Transfer Point.

Telecommunications means the transmission, between or among points specified by the user, of information of the user's choosing, without change in the form or content of the information as sent and received.

Telecommunications Service means the offering of telecommunications for a fee directly to the public, or to such classes of users as to be effectively available directly to the public, regardless of the facilities used.

Telecommunications Act of 1996 ("Act") means Public Law 104-104 of the United States Congress effective February 8, 1996. The Act amended the Communications Act of 1934 (47, U.S.C. Section 1 et. seq.).

Attachment 1

Resale

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RESALE

1. Discount Rates

The discount rates applied to Global Crossing purchases of BellSouth Telecommunications Services for the purpose of resale shall be as set forth in Exhibit A. Such discount shall reflect the costs avoided by BellSouth when selling a service for wholesale purposes.

2. Definition of Terms

2.1 COMPETITIVE LOCAL EXCHANGE COMPANY (CLEC) means a telephone company certificated by the public service commissions of BellSouth's franchised area to provide local exchange service within BellSouth's franchised area.

2.2 CUSTOMER OF RECORD means the entity responsible for placing application for service; requesting additions, rearrangements, maintenance or discontinuance of service; payment in full of charges incurred such as non-recurring, monthly recurring, toll, directory assistance, etc.

2.3 DEPOSIT means assurance provided by a customer in the form of cash, surety bond or bank letter of credit to be held by BellSouth.

2.4 END USER means the ultimate user of the telecommunications services.

2.5 END USER CUSTOMER LOCATION means the physical location of the premises where an end user makes use of the telecommunications services.

2.6 NEW SERVICES means functions, features or capabilities that are not currently offered by BellSouth. This includes packaging of existing services or combining a new function, feature or capability with an existing service.

2.7 RESALE means an activity wherein a certificated CLEC, such as Global Crossing subscribes to the telecommunications services of BellSouth and then offers those telecommunications services to the public

2.8 RESALE SERVICE AREA means the area, as defined in a public service commission approved certificate of operation, within which a CLEC, such as Global Crossing, may offer resold local exchange telecommunications service.

3. General Provisions

3.1 Global Crossing may resell the tariffed local exchange and toll telecommunications services of BellSouth contained in the General Subscriber Service Tariff and Private Line Service Tariff subject to the terms, and conditions specifically set forth herein. Notwithstanding the foregoing, the exclusions and limitations on services available for resale will be as set forth in Exhibit B, attached hereto and incorporated herein by this reference.

3.2 All of the negotiated rates, terms and conditions set forth in this Attachment pertain to the resale of BellSouth's retail telecommunications services and other services specified in this Attachment. BellSouth shall make available telecommunications services for resale at the discount rates set forth in Exhibit A to this Agreement and subject to the exclusions and limitations set forth in Exhibit B to this Agreement. BellSouth does not however waive its rights to appeal or otherwise challenge any decision regarding resale that resulted in the discount rates contained in Exhibit A or the exclusions and limitations contained in Exhibit B. BellSouth reserves the right to pursue any and all legal and/or equitable remedies, including appeals of any decisions. If such appeals or challenges result in changes in the discount rates or exclusions and limitations, the parties agree that appropriate modifications to this Agreement will be made promptly to make its terms consistent with the outcome of the appeal.

3.3 Global Crossing may purchase resale services from BellSouth for their own use in operating their business. The resale discount will apply to those services under the following conditions:

3.3.1 Global Crossing must resell services to other end users.

3.3.2 Global Crossing must order services through resale interfaces, i.e., the Local Carrier Service Center (LCSC) and/or appropriate Resale Account Teams pursuant to Section 3 of the General Terms and Conditions.

3.3.3 Global Crossing cannot be a competitive local exchange telecommunications company for the single purpose of selling to themselves.

3.4 The provision of services by BellSouth to Global Crossing does not constitute a joint undertaking for the furnishing of any service.

3.5 Global Crossing will be the customer of record for all services purchased from BellSouth. Except as specified herein, BellSouth will take orders from, bill and expect payment from Global Crossing for said services.

3.6 Global Crossing will be BellSouth's single point of contact for all services purchased pursuant to this Agreement. BellSouth shall have no contact with the end user except to the extent provided for herein.

3.7 BellSouth will continue to bill the end user for any services that the end user specifies it wishes to receive directly from BellSouth.

3.8 BellSouth maintains the right to serve directly any end user within the service area of Global Crossing. BellSouth will continue to directly market its own telecommunications products and services and in doing so may establish independent relationships with end users of Global Crossing.

3.9 Neither Party shall interfere with the right of any person or entity to obtain service directly from the other Party.

3.10 Current telephone numbers may normally be retained by the end user and are assigned to the service furnished. However, neither Party nor the end user has a property right to the telephone number or any other call number designation associated with services furnished by BellSouth, and no right to the continuance of service through any particular central office. BellSouth reserves the right to change such numbers, or the central office designation associated with such numbers, or both, whenever BellSouth deems it necessary to do so in the conduct of its business and in accordance with BellSouth practices and procedures on a nondiscriminatory basis.

3.11 For the purpose of the resale of BellSouth's telecommunications services by Global Crossing, BellSouth will provide Global Crossing with an on line access to telephone numbers for reservation on a first come first serve basis. Such reservations of telephone numbers, on a pre-ordering basis shall be for a period of nine (9) days. Global Crossing acknowledges that there may be instances where there is a shortage of telephone numbers in a particular Common Language Location Identifier Code (CLLIC) and in such instances BellSouth may request that Global Crossing cancel its reservations of numbers. Global Crossing shall comply with such request.

3.12 Further, upon Global Crossing's request, and for the purpose of the resale of BellSouth's telecommunications services by Global Crossing, BellSouth will reserve up to 100 telephone numbers per CLLIC, for Global Crossing's sole use. Such telephone number reservations shall be valid for ninety (90) days from the reservation date. Global Crossing acknowledges that there may be instances where there is a

shortage of telephone numbers in a particular CLLIC and in such instances BellSouth shall use its best efforts to reserve for a ninety (90) day period a sufficient quantity of Global Crossing's reasonable need in that particular CLLIC.

3.13 Service is furnished subject to the condition that it will not be used for any unlawful purpose.

3.14 Service will be discontinued if any law enforcement agency advises that the service being used is in violation of the law.

3.15 BellSouth can refuse service when it has grounds to believe that service will be used in violation of the law.

3.16 BellSouth accepts no responsibility to any person for any unlawful act committed by Global Crossing or its end users as part of providing service to Global Crossing for purposes of resale or otherwise.

3.17 BellSouth will cooperate fully with law enforcement agencies with subpoenas and court orders for assistance with BellSouth's end users, pursuant to Section 7 of the General Terms and Conditions

3.18 The characteristics and methods of operation of any circuits, facilities or equipment provided by any person or entity other than BellSouth shall not:

3.18.1 Interfere with or impair service over any facilities of BellSouth, its affiliates, or its connecting and concurring carriers involved in its service; or

3.18.2 Cause damage to BellSouth's plant;

3.18.3 Impair the privacy of any communications; or

3.18.4 Create hazards to any BellSouth employees or the public.

3.19 If Global Crossing utilizes a BellSouth resold telecommunications service in a manner other than which the service was originally intended as described in BellSouth's retail tariffs, Global Crossing has the responsibility to notify BellSouth. BellSouth will only provision and maintain said service consistent with the terms and conditions of the tariff describing said service.

3.20 Facilities and/or equipment utilized by BellSouth to provide service to Global Crossing remain the property of BellSouth.

3.21 White page directory listings will be provided in accordance with Section 5 of the General Terms and Conditions.

3.22 BellSouth provides electronic access to customer record information. Access is provided through the Local Exchange Navigation System (LENS) and the Telecommunications Access Gateway (TAG). Customer Record Information includes but is not limited to, customer specific information in CRIS and RSAG. In addition, Global Crossing shall provide to BellSouth access to customer record information including electronic access where available. Otherwise, upon request by BellSouth Global Crossing shall provide paper copies of customer record information within a reasonable period of time by BellSouth. Customer Record Information is equivalent to but not limited to the type of customer specific information contained in CRIS and RSAG. The Parties agree not to view, copy, or otherwise obtain access to the customer record information of any customer without that customer's permission, and further agrees that Global Crossing and BellSouth will obtain access to customer record information only in strict compliance with applicable laws, rules, or regulations of the State in which the service is provided.

3.23 All costs incurred by BellSouth to develop and implement operational interfaces shall be recovered from Resellers who utilize the services. Charges for use of Operational Support Systems (OSS) shall be as set forth in Exhibit A of this Attachment.

3.24 Where available to BellSouth's end users, BellSouth shall provide the following telecommunications services at a discount to allow for voice mail services:

- Simplified Message Desk Interface - Enhanced ("SMDI-E")
- Simplified Message Desk Interface ("SMDI")
- Message Waiting Indicator ("MWI") stutter dialtone and message waiting light feature capabilities
- Call Forward on Busy ("CF/B")
- Call Forward Don't Answer ("CF/DA")

Further, BellSouth messaging services set forth in BellSouth's Messaging Service Information Package shall be made available for resale without the wholesale discount.

3.24.1 BellSouth shall provide branding for, or shall unbrand, voice mail services to Global Crossing per the Bona Fide Request/New Business Request process as set forth in Section 6 of the General Terms and Conditions.

3.25 BellSouth's Inside Wire Maintenance Service Plans may be made available for resale at rates, terms and conditions as set forth by BellSouth and without the wholesale discount.

3.26 If Global Crossing requires a special assembly Global Crossing agrees to pay the costs incurred by BellSouth for providing the requested special assembly. The costs will be provided to Global Crossing prior to providing the service. Such costs could include both recurring and non-recurring charges and shall exclude any cost attributable to any marketing ,billing collection or other costs that will be avoided by BellSouth in providing service to Global Crossing .

3.27 Recovery of charges associated with implementing Number Portability through monthly charges assessed to end users has been authorized by the FCC. This end user line charge will be billed to Resellers of BellSouth's telecommunications services and will be as filed in FCC No. 1. This charge is not discounted.

3.28 BellSouth shall provide 911/E911 for Global Crossing customers in the same manner that it is provided to BellSouth customers. BellSouth shall provide and validate Global Crossing customer information to the PSAP. BellSouth shall use its service order process to update and maintain, on the same schedule that it uses for its customers, the Global Crossing customer service information in the ALI/DMS (Automatic Location Identification/Location Information) databases used to support 911/E911 services.

3.29 Pursuant to 47 CFR Section 51.617, BellSouth will bill Global Crossing end users common line charges identical to the end user common line charges BellSouth bills its end users.

4. BellSouth's Provision of Services to Global Crossing

4.1 Global Crossing agrees that its resale of BellSouth services shall be as follows:

4.1.1 The resale of telecommunications services shall be limited to users and uses conforming to the class of service restrictions.

4.1.2 Hotel and Hospital PBX services are the only telecommunications services available for resale to Hotel/Motel and Hospital end users, respectively. Similarly, Access Line Service for Customer Provided Coin Telephones is the only local service available for resale to Independent Payphone Provider (IPP) customers. Shared Tenant Service customers can only be sold those local exchange access services available in BellSouth's A23 Shared Tenant Service Tariff in the states of Florida, Georgia, North

Carolina and South Carolina, and in A27 in the states of Alabama, Kentucky, Louisiana, Mississippi and Tennessee.

4.1.3 BellSouth reserves the right to periodically audit services purchased by Global Crossing to establish authenticity of use. Such audit shall not occur more than once in a calendar year. Global Crossing shall make any and all records and data available to BellSouth or BellSouth's auditors on a reasonable basis. BellSouth shall bear the cost of said audit.

4.2 Resold services can only be used in the same manner as specified in BellSouth's Tariffs. Resold services are subject to the same terms and conditions as are specified for such services when furnished to an individual end user of BellSouth in the appropriate section of BellSouth's Tariffs. Specific tariff features (e.g. a usage allowance per month), shall not be aggregated across multiple resold services.

4.3 Global Crossing may resell services only within the specific resale service area as defined in its certificate.

4.4 Telephone numbers transmitted via any resold service feature are intended solely for the use of the end user of the feature. Resale of this information is prohibited.

5. Maintenance of Services

5.1 Global Crossing will adopt and adhere to the standards contained in the applicable CLEC Work Center Operational Understanding Agreement regarding maintenance and installation of service.

5.2 Services resold pursuant to this Attachment and BellSouth's General Subscriber Service Tariff and Private Line Service Tariff and facilities and equipment provided by BellSouth shall be maintained by BellSouth.

5.3 Global Crossing or its end users may not rearrange, move, disconnect, remove or attempt to repair any facilities owned by BellSouth, other than by connection or disconnection to any interface means used, except with the written consent of BellSouth.

5.4 Global Crossing accepts responsibility to notify BellSouth of situations that arise that may result in a service problem.

5.5 Global Crossing will be BellSouth's single point of contact for all repair calls on behalf of Global Crossing's end users. The parties agree to provide one another with toll-free contact numbers for such purposes.

5.6 Global Crossing will contact the appropriate repair centers in accordance with procedures established by BellSouth.

5.7 For all repair requests, Global Crossing accepts responsibility for adhering to BellSouth's prescreening guidelines prior to referring the trouble to BellSouth.

5.8 BellSouth will bill Global Crossing for handling troubles that are found not to be in BellSouth's network pursuant to its standard time and material charges. The standard time and material charges will be no more than what BellSouth charges to its retail customers for the same services.

5.9 BellSouth reserves the right to contact Global Crossing's end users, if deemed necessary, for maintenance purposes.

6. Establishment of Service

6.1 After receiving certification as a local exchange company from the appropriate regulatory agency, Global Crossing will provide the appropriate BellSouth service center the necessary documentation to enable BellSouth to establish a master account for Global Crossing's resold services. Such documentation shall include the Application for Master Account, proof of authority to provide telecommunications services, an Operating Company Number ("OCN") assigned by the National Exchange Carriers Association ("NECA") and a tax exemption certificate, if applicable. When necessary deposit requirements are met, BellSouth will begin taking orders for the resale of service.

6.2 Service orders will be in a standard format designated by BellSouth.

6.3 When notification is received from Global Crossing that a current end user of BellSouth will subscribe to Global Crossing's service, standard service order intervals for the appropriate class of service will apply.

6.4 BellSouth will not require end user confirmation prior to establishing service for Global Crossing's end user customer. Global Crossing must, however, be able to demonstrate end user authorization upon request.

6.5 Global Crossing will be the single point of contact with BellSouth for all subsequent ordering activity resulting in additions or changes to resold services except that BellSouth will accept a request directly from the end user for conversion of the end user's service from Global Crossing to BellSouth or will accept a request from another CLEC for conversion of the end user's service from Global Crossing to the other LEC. BellSouth will notify Global Crossing that such a request has been processed.

6.6 If BellSouth determines that an unauthorized change in local service to Global Crossing has occurred, BellSouth will reestablish service with the appropriate local service provider and will assess Global Crossing as the CLEC initiating the unauthorized change, the unauthorized change charge described in F.C.C. Tariff No. 1, Section 13 or applicable state tariff. Appropriate nonrecurring charges, as set forth in Section A4 of the General Subscriber Service Tariff, will also be assessed to Global Crossing. These charges can be adjusted if Global Crossing provides satisfactory proof of authorization.

6.7 In order to safeguard its interest, BellSouth reserves the right to secure the account with a suitable form of security deposit, unless satisfactory credit has already been established.

6.7.1 Such security deposit shall take the form of an irrevocable Letter of Credit or other forms of security acceptable to BellSouth. Any such security deposit may be held during the continuance of the service as security for the payment of any and all amounts accruing for the service.

6.7.2 If a security deposit is required, such security deposit shall be made prior to the inauguration of service.

6.7.3 Such security deposit may not exceed two months' estimated billing.

6.7.4 The fact that a security deposit has been made in no way relieves Global Crossing from complying with BellSouth's regulations as to advance payments and the prompt payment of bills on presentation nor does it constitute a waiver or modification of the regular practices of BellSouth providing for the discontinuance of service for non-payment of any sums due BellSouth.

6.7.5 BellSouth reserves the right to increase the security deposit requirements when, in its sole judgment, circumstances so warrant and/or gross monthly billing has increased beyond the level initially used to determine the security deposit.

6.7.6 In the event that Global Crossing defaults on its account, service to Global Crossing will be terminated and any security deposits held will be applied to its account.

6.7.7 Interest on a security deposit shall accrue and be paid in accordance with the terms in the appropriate BellSouth tariff.

7. **Payment And Billing Arrangements**

7.1 Prior to submitting orders to BellSouth for local service, a master account must be established for Global Crossing. Global Crossing is required to provide the following before a master account is established: proof of PSC/PUC certification, the Application for Master Account, an Operating Company Number ("OCN") assigned by the National Exchange Carriers Association ("NECA") and a tax exemption certificate, if applicable.

7.2 BellSouth shall bill Global Crossing on a current basis all applicable charges and credits.

7.3 Payment of all charges will be the responsibility of Global Crossing. Global Crossing shall make payment to BellSouth for all services billed. BellSouth is not responsible for payments not received by Global Crossing from Global Crossing's end user. BellSouth will not become involved in billing disputes that may arise between Global Crossing and its end user. Payments made to BellSouth as payment on account will be credited to an accounts receivable master account and not to an end user's account.

7.4 BellSouth will render bills each month on established bill days for each of Global Crossing's accounts.

7.5 BellSouth will bill Global Crossing in advance charges for all services to be provided during the ensuing billing period except charges associated with service usage, which will be billed in arrears. Charges will be calculated on an individual end user account level, including, if applicable, any charge for usage or usage allowances. BellSouth will also bill Global Crossing, and Global Crossing will be responsible for and remit to BellSouth, all charges applicable to resold services including but not limited to 911 and E911 charges, telecommunications relay charges (TRS), and franchise fees.

7.6 The payment will be due by the next bill date (i.e., same date in the following month as the bill date) and is payable in immediately available funds. Payment is considered to have been made when received by BellSouth.

7.6.1 If the payment due date falls on a Sunday or on a Holiday which is observed on a Monday, the payment due date shall be the first non-Holiday day following such Sunday or Holiday. If the payment due date falls on a Saturday or on a Holiday which is observed on Tuesday, Wednesday, Thursday, or Friday, the payment due date shall be the last non-Holiday day preceding such Saturday or Holiday. If payment is not received by the payment due date, a late payment penalty, as set forth in section 7.8 following, shall apply.

7.6.2 If Global Crossing requests multiple billing media or additional copies of bills, BellSouth will provide these at an appropriate charge to Global Crossing.

7.6.3 Billing Disputes

7.6.3.1 Each Party agrees to notify the other Party upon the discovery of a billing dispute. In the event of a billing dispute, the Parties will endeavor to resolve the dispute within sixty (60) calendar days of the Bill Date on which such disputed charges appear. Resolution of the dispute is expected to occur at the first level of management resulting in a recommendation for settlement of the dispute and closure of a specific billing period. If the issues are not resolved within the allotted time frame, the following resolution procedure will begin:

7.6.3.2 If the dispute is not resolved within sixty (60) days of the Bill Date, the dispute will be escalated to the second level of management for each of the respective Parties for resolution. If the dispute is not resolved within ninety (90) days of the Bill Date, the dispute will be escalated to the third level of management for each of the respective Parties for resolution

7.6.3.3 If the dispute is not resolved within one hundred and twenty (120) days of the Bill Date, the dispute will be escalated to the fourth level of management for each of the respective Parties for resolution.

7.6.3.4 If a Party disputes a charge and does not pay such charge by the payment due date, such charges shall be subject to late payment charges as set forth in the Late Payment Charges provision of this Attachment. If a Party disputes charges and the dispute is resolved in favor of such Party, the other Party shall credit the bill of the disputing Party for the amount of the disputed charges along with any late payment charges assessed no later than the second Bill Date after the resolution of the dispute. Accordingly, if a Party disputes charges and the dispute is resolved in favor of the other Party, the disputing Party shall pay the other Party the amount of the disputed charges and any associated late payment charges assessed no later than the second bill payment due date after the resolution of the dispute. BellSouth shall only assess interest on previously assessed late payment charges in a state where it has authority pursuant to its tariffs.

7.7 Upon proof of tax exempt certification from Global Crossing, the total amount billed to Global Crossing will not include any taxes due from the end user to reflect the tax exempt certification and local tax laws. Global Crossing will be solely responsible for the computation, tracking, reporting, and payment of taxes applicable to Global Crossing's end user.

7.8 If any portion of the payment is received by BellSouth after the payment due date as set forth preceding, or if any portion of the payment is received by BellSouth in funds that are not immediately available to BellSouth, then a late payment penalty shall be due to BellSouth. The late payment penalty shall be the portion of the payment not received by the payment due date times a late factor and will be applied on a per bill basis. The late factor shall be as set forth in Section A2 of the General Subscriber Services Tariff and Section B2 of the Private Line Service Tariff. Global Crossing will be charged a fee for all returned checks as set forth in Section to A2 of the General Subscriber Services Tariff or in applicable state law.

7.9 Any switched access charges associated with interexchange carrier access to the resold local exchange lines will be billed by, and due to, BellSouth. No additional charges are to be assessed to Global Crossing

7.10 BellSouth will not perform billing and collection services for Global Crossing as a result of the execution of this Agreement. All requests for billing services should be referred to the appropriate entity or operational group within BellSouth.

7.11 In general, BellSouth will not become involved in disputes between Global Crossing and Global Crossing's end user customers over resold services. If a dispute does arise that cannot be settled without the involvement of BellSouth, Global Crossing shall contact the designated Service Center for resolution. BellSouth will make every effort to assist in the resolution of the dispute and will work with Global Crossing to resolve the matter in as timely a manner as possible. Global Crossing may be required to submit documentation to substantiate the claim.

8. Discontinuance of Service

8.1 The procedures for discontinuing service to an end user are as follows:

8.1.1 Where possible, BellSouth will deny service to Global Crossing's end user on behalf of, and at the request of, Global Crossing. Upon restoration of the end user's service, restoral charges will apply and will be the responsibility of Global Crossing.

8.1.2 At the request of Global Crossing, BellSouth will disconnect a Global Crossing end user customer.

8.1.3 All requests by Global Crossing for denial or disconnection of an end user for nonpayment must be in writing.

8.1.4 Global Crossing will be made solely responsible for notifying the end user of the proposed disconnection of the service.

8.1.5 BellSouth will continue to process calls made to the Annoyance Call Center and will advise Global Crossing when it is determined that annoyance calls are originated from one of their end user's locations. BellSouth shall be indemnified, defended and held harmless by Global Crossing and/or the end user against any claim, loss or damage arising from providing this information to Global Crossing. It is the responsibility of Global Crossing to take the corrective action necessary with its end users who make annoying calls. Failure to do so will result in BellSouth's disconnecting the end user's service.

8.1.6 BellSouth may disconnect and reuse facilities when the facility is in a denied state and BellSouth has received an order to establish new service or transfer of service from an end user or an end user's CLEC at the same address served by the denied facility.

8.2 The procedures for discontinuing service to Global Crossing are as follows:

8.2.1 BellSouth reserves the right to suspend or terminate service for nonpayment or in the event of prohibited, unlawful or improper use of the facilities or service, abuse of the facilities, or any other violation or noncompliance by Global Crossing of the rules and regulations of BellSouth's Tariffs.

8.2.2 If payment of account is not received by the bill day in the month after the original bill day, BellSouth may provide written notice to Global Crossing, that additional applications for service will be refused and that any pending orders for service will not be completed if payment is not received by the fifteenth day following the date of the notice. In addition BellSouth may, at the same time, give thirty days notice to the person designated by Global Crossing to receive notices of noncompliance, and discontinue the provision of existing services to Global Crossing at any time thereafter.

8.2.3 In the case of such discontinuance, all billed charges, as well as applicable termination charges, shall become due.

8.2.4 If BellSouth does not discontinue the provision of the services involved on the date specified in the thirty days notice and Global Crossing's noncompliance continues, nothing contained herein shall preclude BellSouth's right to discontinue the provision of the services to Global Crossing without further notice.

8.2.5 If payment is not received or arrangements made for payment by the date given in the written notification, Global Crossing's services will be discontinued. Upon discontinuance of service on a Global Crossing's account, service to Global Crossing's end users will be denied. BellSouth will also reestablish service at the request of the end user or Global Crossing upon payment of the appropriate connection fee and

subject to BellSouth's normal application procedures. Global Crossing is solely responsible for notifying the end user of the proposed disconnection of the service.

8.2.6 If within fifteen days after an end user's service has been denied no contact has been made in reference to restoring service, the end user's service will be disconnected.

9. Line Information Database (LIDB)

9.1 BellSouth will store in its Line Information Database (LIDB) records relating to service only in the BellSouth region. The LIDB Storage Agreement is included in this Attachment as Exhibit C.

9.2 BellSouth will provide LIDB Storage upon written request to Global Crossing Account Manager stating requested activation date.

10. RAO Hosting

10.1 The RAO Hosting Agreement is included in this Attachment as Exhibit D. Rates for BellSouth's Centralized Message Distribution System (CMDS) are as set forth in Exhibit H of this Attachment.

10.2 BellSouth will provide RAO Hosting upon written request to its Account Manager stating requested activation date.

11. Optional Daily Usage File (ODUF)

11.1 The Optional Daily Usage File (ODUF) Agreement with terms and conditions is included in this Attachment as Exhibit E. Rates for ODUF are as set forth in Exhibit H of this Attachment.

11.2 BellSouth will provide Optional Daily Usage File (ODUF) service upon written request to its Account Manager stating requested activation date.

12. Enhanced Optional Daily Usage File (EODUF)

12.1 The Enhanced Optional Daily Usage File (EODUF) service Agreement with terms and conditions is included in this Attachment as Exhibit F. Rates for EODUF are as set forth in Exhibit H of this Attachment.

12.2 BellSouth will provide Enhanced Optional Daily Usage File (EODUF) service upon written request to its Account Manager stating requested activation date.

EXHIBIT A
Page 1

APPLICABLE DISCOUNTS

The telecommunications services available for purchase by Global Crossing for the purposes of resale to Global Crossing end users shall be available at the following discount off of the retail rate. If Global Crossing cancels an order for telecommunications services for the purpose of resale, any costs incurred by BellSouth in conjunction with the provisioning of that order will be recovered in accordance with the applicable sections of the GSST and the PLST.

	DISCOUNT*		
STATE	RESIDENCE	BUSINESS	CSAs***
ALABAMA	16.3%	16.3%	
FLORIDA	21.83%	16.81%	
GEORGIA	20.3%	17.3%	
KENTUCKY	16.79%	15.54%	
LOUISIANA	20.72%	20.72%	9.05%
MISSISSIPPI	15.75%	15.75%	
NORTH CAROLINA	21.5%	17.6%	
SOUTH CAROLINA	14.8%	14.8%	8.98%
TENNESSEE**	16%	16%	

* When a CLEC provides Resale service in a cross boundary area (areas that are part of the local serving area of another state's exchange) the rates, regulations and discounts for the tariffing state will apply. Billing will be from the serving state.

** In Tennessee, if a CLEC provides its own operator services and directory services, the discount shall be 21.56%. CLEC must provide written notification to BellSouth within 30 days prior to providing its own operator services and directory services to qualify for the higher discount rate of 21.56%.

*** Unless noted in this column, the discount for Business will be the applicable discount rate for CSAs.

EXHIBIT A
Page 2

OPERATIONAL SUPPORT SYSTEMS (OSS) RATES

BellSouth has developed and made available the following mechanized systems by which Global Crossing may submit LSRs electronically.

LENS	Local Exchange Navigation System
EDI	Electronic Data Interchange
TAG	Telecommunications Access Gateway

LSRs submitted by means of one of these interactive interfaces will incur an OSS electronic ordering charge as specified in the Table below An individual LSR will be identified for billing purposes by its Purchase Order Number (PON). LSRs submitted by means other than one of these interactive interfaces (mail, fax, courier, etc.) will incur a manual order charge as specified in the table below:

OPERATIONAL SUPPORT SYSTEMS (OSS) RATES	**Electronic** **Per LSR received from the CLEC by one of the OSS interactive interfaces**	**Manual** **Per LSR received from the CLEC by means other than one of the OSS interactive interfaces**
OSS LSR Charge	**$3.50**	**$19.99**
USOC	**SOMEC**	**SOMAN**

Note: In addition to the OSS charges, applicable discounted service order and related discounted charges apply per the tariff.

Denial/Restoral OSS Charge

In the event Global Crossing provides a list of customers to be denied and restored, rather than an LSR, each location on the list will require a separate PON and, therefore will be billed as one LSR per location.

Cancellation OSS Charge

Global Crossing will incur an OSS charge for an accepted LSR that is later canceled by Global Crossing.

Note: Supplements or clarifications to a previously billed LSR will not incur another OSS charge.

Threshold Billing Plan

EXHIBIT A
Page 3

The Parties agree that Global Crossing will incur the mechanized rate for all LSRs, both mechanized and manual, if the percentage of mechanized LSRs to total LSRs meets or exceeds the threshold percentages shown below:

Year	Ratio: Mechanized/Total LSRs
2000	80%
2001	90%

The threshold plan will be discontinued in 2002.

BellSouth will track the total LSR volume for each CLEC for each quarter. At the end of that time period, a Percent Electronic LSR calculation will be made for that quarter based on the LSR data tracked in the LCSC. If this percentage exceeds the threshold volume, all of that CLECs' future manual LSRs will be billed at the mechanized LSR rate. To allow time for obtaining and analyzing the data and updating the billing system, this billing change will take place on the first day of the second month following the end of the quarter (e.g. May 1 for 1Q, Aug 1 for 2Q, etc.). There will be no adjustments to the amount billed for previously billed LSRs.

Exclusions and Limitations
On Services Available for Resale

	Type of Service	AL		FL		GA		KY		LA		MS		NC		SC		TN	
		Resale	Discount	Resale	Discount	Resale	Discount	Resale	Discount	Resale	Discount	Resale	Discount	Resale	Discount	Resale	Discount	Resale	Discount
1	Grandfathered Services (Note 1)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	Contract Service Arrangements	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	Promotions - > 90 Days(Note 2)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Note 3
4	Promotions - < 90 Days (Note 2)	Yes	No	Yes	No	Yes	No	No	No	Yes	No	Yes	No	Yes	No	Yes	No	No	No
5	Lifeline/Link Up Services	Yes	Yes	Yes	Yes	Yes	Yes	Note 4	Note 4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	911/E911 Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	N11 Services	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	Yes	Yes	Yes	Yes	No	No	Yes	Yes
8	AdWatch℠ Svc (See Note 6)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	MemoryCall® Service	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
10	Mobile Services	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
11	Federal Subscriber Line Charges	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
12	Non-Recurring Charges	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
13	End User Line Charge – Number Portability	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No

Exclusions and Limitations
On Services Available for Resale

14	Public Telephone Access Service (PTAS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes

Applicable Notes:

1. **Grandfathered services** can be resold only to existing subscribers of the grandfathered service.
2. Where available for resale, **promotions** will be made available only to end users who would have qualified for the promotion had it been provided by BellSouth directly.
3. In Tennessee, long-term **promotions** (offered for more than ninety (90) days) may be obtained at one of the following rates:
   (a) the stated tariff rate, less the wholesale discount;
   (b) the promotional rate (the promotional rate offered by BellSouth will not be discounted further by the wholesale discount rate)
4. **Lifeline/Link Up** services may be offered only to those subscribers who meet the criteria that BellSouth currently applies to subscribers of these services as set forth in Sections A3 and A4 of the BellSouth General Subscriber Services Tariff.
5. Some of BellSouth's local exchange and toll telecommunications services are not available in certain central offices and areas.
6. AdWatch[SM] Service is tariffed as BellSouth® AIN Virtual Number Call Detail Service.

LINE INFORMATION DATA BASE (LIDB) STORAGE AGREEMENT

I. SCOPE

A. This Agreement sets forth the terms and conditions pursuant to which BellSouth agrees to store in its LIDB certain information at the request of Global Crossing and pursuant to which BellSouth, its LIDB customers and Global Crossing shall have access to such information. Global Crossing understands that BellSouth provides access to information in its LIDB to various telecommunications service providers pursuant to applicable tariffs and agrees that information stored at the request of Global Crossing, pursuant to this Agreement, shall be available to those telecommunications service providers. The terms and conditions contained in the attached Addendum(s) are hereby made a part of this Agreement as if fully incorporated herein.

B. LIDB is accessed for the following purposes:
1. Billed Number Screening
2. Calling Card Validation
3. Fraud Control

C. BellSouth will provide seven days per week, 24-hours per day, fraud monitoring on Calling Cards, bill-to-third and collect calls made to numbers in BellSouth's LIDB, provided that such information is included in the LIDB query. BellSouth will establish fraud alert thresholds and will notify Global Crossing of fraud alerts so that Global Crossing may take action it deems appropriate. Global Crossing understands and agrees BellSouth will administer all data stored in the LIDB, including the data provided by Global Crossing pursuant to this Agreement, in the same manner as BellSouth's data for BellSouth's end user customers. BellSouth shall not be responsible to Global Crossing for any lost revenue which may result from BellSouth's administration of the LIDB pursuant to its established practices and procedures as they exist and as they may be changed by BellSouth in its sole discretion from time to time.

Global Crossing understands that BellSouth currently has in effect numerous billing and collection agreements with various interexchange carriers and billing clearing houses. Global Crossing further understands that these billing and collection customers of BellSouth query BellSouth's LIDB to determine whether to accept various billing options from end users. Additionally, Global Crossing understands that presently BellSouth has no method to differentiate between BellSouth's own billing and line data in the LIDB and such data which it includes in the LIDB on Global Crossing's behalf pursuant to this Agreement. Therefore, until such time as

BellSouth can and does implement in its LIDB and its supporting systems the means to differentiate Global Crossing's data from BellSouth's data and the Parties to this Agreement execute appropriate amendments hereto, the following terms and conditions shall apply:

(a) Global Crossing agrees that it will accept responsibility for telecommunications services billed by BellSouth for its billing and collection customers for Global Crossing's end user accounts which are resident in LIDB pursuant to this Agreement. Global Crossing authorizes BellSouth to place such charges on Global Crossing's bill from BellSouth and agrees that it shall pay all such charges. Charges for which Global Crossing hereby takes responsibility include, but are not limited to, collect and third number calls.

(b) Charges for such services shall appear on a separate BellSouth bill page identified with the name of the entity for which BellSouth is billing the charge.

(c) Global Crossing shall have the responsibility to render a billing statement to its end users for these charges, but Global Crossing's obligation to pay BellSouth for the charges billed shall be independent of whether Global Crossing is able or not to collect from Global Crossing's end users.

(d) BellSouth shall not become involved in any disputes between Global Crossing and the entities for which BellSouth performs billing and collection. BellSouth will not issue adjustments for charges billed on behalf of an entity to Global Crossing. It shall be the responsibility of Global Crossing and the other entity to negotiate and arrange for any appropriate adjustments.

II. TERM

This Agreement will be effective as of _____, and will continue in effect for one year, and thereafter may be continued until terminated by either Party upon thirty (30) days written notice to the other Party.

III. FEES FOR SERVICE AND TAXES

A. Global Crossing will not be charged a fee for storage services provided by BellSouth to Global Crossing, as described in Section I of this Agreement.

B. Sales, use and all other taxes (excluding taxes on BellSouth's income) determined by BellSouth or any taxing authority to be due to any federal, state or local taxing jurisdiction with respect to the provision of the service set forth herein will be paid by Global Crossing. Global Crossing shall have the right to have BellSouth contest with

the imposing jurisdiction, at Global Crossing's expense, any such taxes that Global Crossing deems are improperly levied.

IV. INDEMNIFICATION

To the extent not prohibited by law, each Party will indemnify the other and hold the other harmless against any loss, cost, claim, injury, or liability relating to or arising out of negligence or willful misconduct by the indemnifying Party or its agents or contractors in connection with the indemnifying Party's provision of services, provided, however, that any indemnity for any loss, cost, claim, injury or liability arising out of or relating to errors or omissions in the provision of services under this Agreement shall be limited as otherwise specified in this Agreement. The indemnifying Party under this Section agrees to defend any suit brought against the other Party for any such loss, cost, claim, injury or liability. The indemnified Party agrees to notify the other Party promptly, in writing, of any written claims, lawsuits, or demands for which the other Party is responsible under this Section and to cooperate in every reasonable way to facilitate defense or settlement of claims. The indemnifying Party shall not be liable under this Section for settlement by the indemnified Party of any claim, lawsuit, or demand unless the defense of the claim, lawsuit, or demand has been tendered to it in writing and the indemnifying Party has unreasonably failed to assume such defense.

V. LIMITATION OF LIABILITY

Neither Party shall be liable to the other Party for any lost profits or revenues or for any indirect, incidental or consequential damages incurred by the other Party arising from this Agreement or the services performed or not performed hereunder, regardless of the cause of such loss or damage.

VI. MISCELLANEOUS

A. It is understood and agreed to by the Parties that BellSouth may provide similar services to other companies.

B. All terms, conditions and operations under this Agreement shall be performed in accordance with, and subject to, all applicable local, state or federal legal and regulatory tariffs, rulings, and other requirements of the federal courts, the U. S. Department of Justice and state and federal regulatory agencies. Nothing in this Agreement shall be construed to cause either Party to violate any such legal or regulatory requirement and either Party's obligation to perform shall be subject to all such requirements.

C. Global Crossing agrees to submit to BellSouth all advertising, sales promotion, press releases, and other publicity matters relating to this Agreement wherein BellSouth's corporate or trade names, logos, trademarks or service marks or those of BellSouth's affiliated companies are mentioned or language from which the connection of said

names or trademarks therewith may be inferred or implied; and Global Crossing further agrees not to publish or use advertising, sales promotions, press releases, or publicity matters without BellSouth's prior written approval.

D. This Agreement constitutes the entire Agreement between Global Crossing and BellSouth which supersedes all prior Agreements or contracts, oral or written representations, statements, negotiations, understandings, proposals and undertakings with respect to the subject matter hereof.

E. Except as expressly provided in this Agreement, if any part of this Agreement is held or construed to be invalid or unenforceable, the validity of any other Section of this Agreement shall remain in full force and effect to the extent permissible or appropriate in furtherance of the intent of this Agreement.

F. Neither Party shall be held liable for any delay or failure in performance of any part of this Agreement for any cause beyond its control and without its fault or negligence, such as acts of God, acts of civil or military authority, government regulations, embargoes, epidemics, war, terrorist acts, riots, insurrections, fires, explosions, earthquakes, nuclear accidents, floods, strikes, power blackouts, volcanic action, other major environmental disturbances, unusually severe weather conditions, inability to secure products or services of other persons or transportation facilities, or acts or omissions of transportation common carriers.

G. This Agreement shall be deemed to be a contract made under the laws of the State of Georgia, and the construction, interpretation and performance of this Agreement and all transactions hereunder shall be governed by the domestic law of such State.

RESALE ADDENDUM TO LINE INFORMATION DATA BASE (LIDB) STORAGE AGREEMENT

This is a Resale Addendum to the Line Information Data Base Storage Agreement dated _____, 2000, between BellSouth Telecommunications, Inc. ("BellSouth"), and Global Crossing ("Global Crossing"), effective the _____ day of _____, 2000.

I. GENERAL

This Addendum sets forth the terms and conditions for Global Crossing's provision of billing number information to BellSouth for inclusion in BellSouth's LIDB. BellSouth will store in its LIDB the billing number information provided by Global Crossing, and BellSouth will provide responses to on-line, call-by-call queries to this information for purposes specified in Section I.B. of the Agreement.

II. DEFINITIONS

A. Billing number - a number used by BellSouth for the purpose of identifying an account liable for charges. This number may be a line or a special billing number.

B. Line number - a ten-digit number assigned by BellSouth that identifies a telephone line associated with a resold local exchange service, or with a SPNP arrangement.

C. Special billing number - a ten-digit number that identifies a billing account established by BellSouth in connection with a resold local exchange service or with a SPNP arrangement.

D. Calling Card number - a billing number plus PIN number assigned by BellSouth.

E. PIN number - a four digit security code assigned by BellSouth which is added to a billing number to compose a fourteen digit calling card number.

F. Toll billing exception indicator - associated with a billing number to indicate that it is considered invalid for billing of collect calls or third number calls or both, by the Global Crossing.

G. Billed Number Screening - refers to the activity of determining whether a toll billing exception indicator is present for a particular billing number.

H. Calling Card Validation - refers to the activity of determining whether a particular calling card number exists as stated or otherwise provided by a caller.

I. Billing number information - information about billing number or Calling Card number as assigned by BellSouth and toll billing exception indicator provided to BellSouth by the Global Crossing.

III. RESPONSIBILITIES OF PARTIES

A. BellSouth will include billing number information associated with resold exchange lines or SPNP arrangements in its LIDB. The Global Crossing will request any toll billing exceptions via the Local Service Request (LSR) form used to order resold exchange lines, or the SPNP service request form used to order SPNP arrangements.

B. Under normal operating conditions, BellSouth shall include the billing number information in its LIDB upon completion of the service order establishing either the resold local exchange service or the SPNP arrangement, provided that BellSouth shall not be held responsible for any delay or failure in performance to the extent such delay or failure is caused by circumstances or conditions beyond BellSouth's reasonable control. BellSouth will store in its LIDB an unlimited volume of the working telephone numbers associated with either the resold local exchange lines or the SPNP arrangements. For resold local exchange lines or for SPNP arrangements, BellSouth will issue line-based calling cards only in the name of Global Crossing. BellSouth will not issue line-based calling cards in the name of Global Crossing's individual end users. In the event that Global Crossing wants to include calling card numbers assigned by the Global Crossing in the BellSouth LIDB, a separate agreement is required.

C. BellSouth will provide responses to on-line, call-by-call queries to the stored information for the specific purposes listed in the next paragraph.

D. BellSouth is authorized to use the billing number information to perform the following functions for authorized users on an on-line basis:

1. Validate a 14 digit Calling Card number where the first 10 digits are a line number or special billing number assigned by BellSouth, and where the last four digits (PIN) are a security code assigned by BellSouth.

2. Determine whether the Global Crossing has identified the billing number as one which should not be billed for collect or third number calls, or both.

RAO Hosting

1. RAO Hosting, Calling Card and Third Number Settlement System (CATS) and Non-Intercompany Settlement System (NICS) services provided to Global Crossing by BellSouth will be in accordance with the methods and practices regularly adopted and applied by BellSouth to its own operations during the term of this Agreement, including such revisions as may be made from time to time by BellSouth.

2. Global Crossing shall furnish all relevant information required by BellSouth for the provision of RAO Hosting, CATS and NICS.

3. Applicable compensation amounts will be billed by BellSouth to Global Crossing on a monthly basis in arrears. Amounts due from one Party to the other (excluding adjustments) are payable within thirty (30) days of receipt of the billing statement.

4. Global Crossing must have its own unique RAO code. Requests for establishment of RAO status where BellSouth is the selected Centralized Message Distribution System (CMDS) interfacing host, require written notification from Global Crossing to the BellSouth RAO Hosting coordinator at least eight (8) weeks prior to the proposed effective date. The proposed effective date will be mutually agreed upon between the Parties with consideration given to time necessary for the completion of required Telcordia (formerly BellCore) functions. BellSouth will request the assignment of an RAO code from its connecting contractor, currently Telcordia (formerly BellCore), on behalf of Global Crossing and will coordinate all associated conversion activities.

5. BellSouth will receive messages from Global Crossing that are to be processed by BellSouth, another LEC or CLEC in the BellSouth region or a LEC outside the BellSouth region.

6. BellSouth will perform invoice sequence checking, standard EMI format editing, and balancing of message data with the EMI trailer record counts on all data received from Global Crossing.

7. All data received from Global Crossing that is to be processed or billed by another LEC or CLEC within the BellSouth region will be distributed to that LEC or CLEC in accordance with the agreement(s) which may be in effect between BellSouth and the involved LEC or CLEC.

8. All data received from Global Crossing that is to be placed on the CMDS network for distribution outside the BellSouth region will be handled in accordance with the

agreement(s) which may be in effect between BellSouth and its connecting contractor (currently Telcordia (formerly BellCore)).

9. BellSouth will receive messages from the CMDS network that are destined to be processed by Global Crossing and will forward them to Global Crossing on a daily basis.

10. Transmission of message data between BellSouth and Global Crossing will be via CONNECT:Direct.

11. All messages and related data exchanged between BellSouth and Global Crossing will be formatted in accordance with accepted industry standards for EMI formatted records and packed between appropriate. EMI header and trailer records, also in accordance with accepted industry standards.

12. Global Crossing will ensure that the recorded message detail necessary to recreate files provided to BellSouth will be maintained for back-up purposes for a period of three (3) calendar months beyond the related message dates.

13. Should it become necessary for Global Crossing to send data to BellSouth more than sixty (60) days past the message date(s), Global Crossing will notify BellSouth in advance of the transmission of the data. If there will be impacts outside the BellSouth region, BellSouth will work with its connecting contractor and Global Crossing to notify all affected Parties.

14. In the event that data to be exchanged between the two Parties should become lost or destroyed, both Parties will work together to determine the source of the problem. Once the cause of the problem has been jointly determined and the responsible Party (BellSouth or Global Crossing) identified and agreed to, the company responsible for creating the data (BellSouth or Global Crossing) will make every effort to have the affected data restored and retransmitted. If the data cannot be retrieved, the responsible Party will be liable to the other Party for any resulting lost revenue. Lost revenue may be a combination of revenues that could not be billed to the end users and associated access revenues. Both Parties will work together to estimate the revenue amount based upon historical data through a method mutually agreed upon. The resulting estimated revenue loss will be paid by the responsible Party to the other Party within three (3) calendar months of the date of problem resolution, or as mutually agreed upon by the Parties.

15. Should an error be detected by the EMI format edits performed by BellSouth on data received from Global Crossing, the entire pack containing the affected data will not be processed by BellSouth. BellSouth will notify Global Crossing of the error condition. Global Crossing will correct the error(s) and will resend the entire pack to BellSouth for processing. In the event that an out-of-sequence condition occurs on subsequent packs, Global Crossing will resend these packs to BellSouth after the pack containing the error has been successfully reprocessed by BellSouth.

16. In association with message distribution service, BellSouth will provide Global Crossing with associated intercompany settlements reports (CATS and NICS) as appropriate.

17. In no case shall either Party be liable to the other for any direct or consequential damages incurred as a result of the obligations set out in this agreement.

18. RAO Compensation

18.1 Rates for message distribution service provided by BellSouth for Global Crossing are as set forth in Exhibit A to this Attachment.

18.2 Rates for data transmission associated with message distribution service are as set forth in Exhibit A to this Attachment .

18.3 Data circuits (private line or dial-up) will be required between BellSouth and Global Crossing for the purpose of data transmission. Where a dedicated line is required, Global Crossing will be responsible for ordering the circuit, overseeing its installation and coordinating the installation with BellSouth. Global Crossing will also be responsible for any charges associated with this line. Equipment required on the BellSouth end to attach the line to the mainframe computer and to transmit successfully ongoing will be negotiated on a case by case basis. Where a dial-up facility is required, dial circuits will be installed in the BellSouth data center by BellSouth and the associated charges assessed to Global Crossing. Additionally, all message toll charges associated with the use of the dial circuit by Global Crossing will be the responsibility of Global Crossing. Associated equipment on the BellSouth end, including a modem, will be negotiated on a case by case basis between the Parties.

18.4 All equipment, including modems and software, that is required on the Global Crossing end for the purpose of data transmission will be the responsibility of Global Crossing.

19. Intercompany Settlements Messages

19.1 This Section addresses the settlement of revenues associated with traffic originated from or billed by Global Crossing as a facilities based provider of local exchange telecommunications services outside the BellSouth region. Only traffic that originates in one Bell operating territory and bills in another Bell operating territory is included. Traffic that originates and bills within the same Bell operating territory will be settled on a local basis between Global Crossing and the involved company(ies), unless that company is participating in NICS.

19.2 Both traffic that originates outside the BellSouth region by Global Crossing and is billed within the BellSouth region, and traffic that originates within the BellSouth region and is billed outside the BellSouth region by Global Crossing, is covered by this Agreement (CATS). Also covered is traffic that either is originated by or billed by Global Crossing, involves a company other than Global Crossing, qualifies for inclusion in the CATS settlement, and is not originated or billed within the BellSouth region (NICS).

19.3 Once Global Crossing is operating within the BellSouth territory, revenues associated with calls originated and billed within the BellSouth region will be settled via Telcordia (formerly BellCore)'s, its successor or assign, NICS system.

19.4 BellSouth will receive the monthly NICS reports from Telcordia (formerly BellCore), its successor or assign, on behalf of Global Crossing. BellSouth will distribute copies of these reports to Global Crossing on a monthly basis.

19.5 BellSouth will receive the monthly Calling Card and Third Number Settlement System (CATS) reports from Telcordia (formerly BellCore), its successor or assign, on behalf of Global Crossing. BellSouth will distribute copies of these reports to Global Crossing on a monthly basis.

19.6 BellSouth will collect the revenue earned by Global Crossing from the Bell operating company in whose territory the messages are billed (CATS), less a per message billing and collection fee of five cents ($0.05), on behalf of Global Crossing. BellSouth will remit the revenue billed by Global Crossing to the Bell operating company in whose territory the messages originated, less a per message billing and collection fee of five cents ($0.05), on behalf on Global Crossing. These two amounts will be netted together by BellSouth and the resulting charge or credit issued

to Global Crossing via a monthly Carrier Access Billing System (CABS) miscellaneous bill.

19.7 BellSouth will collect the revenue earned by Global Crossing within the BellSouth territory from another CLEC also within the BellSouth territory (NICS) where the messages are billed, less a per message billing and collection fee of five cents ($0.05), on behalf of Global Crossing. BellSouth will remit the revenue billed by Global Crossing within the BellSouth region to the CLEC also within the BellSouth region, where the messages originated, less a per message billing and collection fee of five cents ($0.05). These two amounts will be netted together by BellSouth and the resulting charge or credit issued to Global Crossing via a monthly Carrier Access Billing System (CABS) miscellaneous bill.

BellSouth and Global Crossing agree that monthly netted amounts of less than fifty dollars ($50.00) will not be settled.

Optional Daily Usage File

1. Upon written request from Global Crossing, BellSouth will provide the Optional Daily Usage File (ODUF) service to Global Crossing pursuant to the terms and conditions set forth in this section.

2. Global Crossing shall furnish all relevant information required by BellSouth for the provision of the Optional Daily Usage File.

3. The Optional Daily Usage Feed will contain billable messages that were carried over the BellSouth Network and processed in the BellSouth Billing System, but billed to a Global Crossing customer.

   Charges for delivery of the Optional Daily Usage File will appear on Global Crossings' monthly bills. The charges are as set forth in Exhibit A to this Attachment.

4. The Optional Daily Usage Feed will contain both rated and unrated messages. All messages will be in the standard Alliance for Telecommunications Industry Solutions (ATIS) EMI record format.

5. Messages that error in Global Crossing's billing system will be the responsibility of Global Crossing. If, however, Global Crossing should encounter significant volumes of errored messages that prevent processing by Global Crossing within its systems, BellSouth will work with the to determine the source of the errors and the appropriate resolution.

6. The following specifications shall apply to the Optional Daily Usage Feed.

6.1 Usage To Be Transmitted

6.1.1 The following messages recorded by BellSouth will be transmitted to Global Crossing:

- Message recording for per use/per activation type services (examples: Three Way Calling, Verify, Interrupt, Call Return, ETC.)
- Measured billable Local
- Directory Assistance messages
- IntraLATA Toll

- WATS & 800 Service
- N11
- Information Service Provider Messages
- Operator Services Messages
- Operator Services Message Attempted Calls (UNE only)
- Credit/Cancel Records
- Usage for Voice Mail Message Service

6.1.2 Rated Incollects (originated in BellSouth and from other companies) can also be on Optional Daily Usage File. Rated Incollects will be intermingled with BellSouth recorded rated and unrated usage. Rated Incollects will not be packed separately.

6.1.3 BellSouth will perform duplicate record checks on records processed to Optional Daily Usage File. Any duplicate messages detected will be deleted and not sent to Global Crossing.

6.1.4 In the event that Global Crossing detects a duplicate on Optional Daily Usage File they receive from BellSouth, Global Crossing will drop the duplicate message (Global Crossing will not return the duplicate to BellSouth).

6.2 Physical File Characteristics

6.2.1 The Optional Daily Usage File will be distributed to Global Crossing via an agreed medium with CONNECT:Direct being the preferred transport method. The Daily Usage Feed will be a variable block format (2476) with an LRECL of 2472. The data on the Daily Usage Feed will be in a non-compacted EMI format (175 byte format plus modules). It will be created on a daily basis (Monday through Friday except holidays). Details such as dataset name and delivery schedule will be addressed during negotiations of the distribution medium. There will be a maximum of one dataset per workday per OCN.

6.2.2 Data circuits (private line or dial-up) may be required between BellSouth and Global Crossing for the purpose of data transmission. Where a dedicated line is required, Global Crossing will be responsible for ordering the circuit, overseeing its installation and coordinating the installation with BellSouth. Global Crossing will also be responsible for any charges associated with this line. Equipment required on the BellSouth end to attach the line to the mainframe computer and to transmit

successfully ongoing will be negotiated on a case by case basis. Where a dial-up facility is required, dial circuits will be installed in the BellSouth data center by BellSouth and the associated charges assessed to Global Crossing. Additionally, all message toll charges associated with the use of the dial circuit by Global Crossing will be the responsibility of Global Crossing. Associated equipment on the BellSouth end, including a modem, will be negotiated on a case by case basis between the parties. All equipment, including modems and software, that is required on Global Crossing end for the purpose of data transmission will be the responsibility of Global Crossing.

6.3 Packing Specifications

6.3.1 A pack will contain a minimum of one message record or a maximum of 99,999 message records plus a pack header record and a pack trailer record. One transmission can contain a maximum of 99 packs and a minimum of one pack.

6.3.2 The OCN, From RAO, and Invoice Number will control the invoice sequencing. The From RAO will be used to identify to Global Crossing which BellSouth RAO that is sending the message. BellSouth and Global Crossing will use the invoice sequencing to control data exchange. BellSouth will be notified of sequence failures identified by Global Crossing and resend the data as appropriate.

THE DATA WILL BE PACKED USING ATIS EMI RECORDS.

6.4 Pack Rejection

6.4.1 Global Crossing will notify BellSouth within one business day of rejected packs (via the mutually agreed medium). Packs could be rejected because of pack sequencing discrepancies or a critical edit failure on the Pack Header or Pack Trailer records (i.e. out-of-balance condition on grand totals, invalid data populated). Standard ATIS EMI Error Codes will be used. Global Crossing will not be required to return the actual rejected data to BellSouth. Rejected packs will be corrected and retransmitted to Global Crossing by BellSouth.

6.5 Control Data

Global Crossing will send one confirmation record per pack that is received from BellSouth. This confirmation record will indicate Global Crossing received the pack and the acceptance or rejection of the pack. Pack Status Code(s) will be populated using standard ATIS EMI error codes for packs that were rejected by Global Crossing for reasons stated in the above section.

6.6 Testing

6.6.1 Upon request from Global Crossing, BellSouth shall send test files to Global Crossing for the Optional Daily Usage File. The parties agree to review and discuss the file's content and/or format. For testing of usage results, BellSouth shall request that Global Crossing set up a production (LIVE) file. The live test may consist of Global Crossing's employees making test calls for the types of services Global Crossing requests on the Optional Daily Usage File. These test calls are logged by Global Crossing, and the logs are provided to BellSouth. These logs will be used to verify the files. Testing will be completed within 30 calendar days from the date on which the initial test file was sent.

Enhanced Optional Daily Usage File

1. Upon written request from Global Crossing, BellSouth will provide the Enhanced Optional Daily Usage File (EODUF) service to Global Crossing pursuant to the terms and conditions set forth in this section. EODUF will only be sent to existing ODUF subscribers who request the EODUF option.

2. The Global Crossing shall furnish all relevant information required by BellSouth for the provision of the Enhanced Optional Daily Usage File.

3. The Enhanced Optional Daily Usage File (EODUF) will provide usage data for local calls originating from resold Flat Rate Business and Residential Lines.

4. Charges for delivery of the Enhanced Optional Daily Usage File will appear on Global Crossings' monthly bills. The charges are as set forth in Exhibit A to this Attachment.

5. All messages will be in the standard Alliance for Telecommunications Industry Solutions (ATIS) EMI record format.

6. Messages that error in the billing system of Global Crossing will be the responsibility of Global Crossing. If, however, Global Crossing should encounter significant volumes of errored messages that prevent processing by Global Crossing within its systems, BellSouth will work with Global Crossing to determine the source of the errors and the appropriate resolution.

7. The following specifications shall apply to the Optional Daily Usage Feed.

7.1 Usage To Be Transmitted

7.1.1 The following messages recorded by BellSouth will be transmitted to Global Crossing:

Customer usage data for flat rated local call originating from Global Crossing's end user lines (1FB or 1FR). The EODUF record for flat rate messages will include:

Date of Call
From Number
To Number
Connect Time
Conversation Time
Method of Recording
From RAO
Rate Class

Message Type
Billing Indicators
Bill to Number

7.1.2 BellSouth will perform duplicate record checks on EODUF records processed to Optional Daily Usage File. Any duplicate messages detected will be deleted and not sent to Global Crossing.

7.1.3 In the event that Global Crossing detects a duplicate on Enhanced Optional Daily Usage File they receive from BellSouth, Global Crossing will drop the duplicate message (Global Crossing will not return the duplicate to BellSouth).

7.2 Physical File Characteristics

7.2.1 The Enhanced Optional Daily Usage Feed will be distributed to Global Crossing over their existing Optional Daily Usage File (ODUF) feed. The EODUF messages will be intermingled among Global Crossing's Optional Daily Usage File (ODUF) messages. The EODUF will be a variable block format (2476) with an LRECL of 2472. The data on the EODUF will be in a non-compacted EMI format (175 byte format plus modules). It will be created on a daily basis (Monday through Friday except holidays).

7.2.2 Data circuits (private line or dial-up) may be required between BellSouth and Global Crossing for the purpose of data transmission. Where a dedicated line is required, Global Crossing will be responsible for ordering the circuit, overseeing its installation and coordinating the installation with BellSouth. Global Crossing will also be responsible for any charges associated with this line. Equipment required on the BellSouth end to attach the line to the mainframe computer and to transmit successfully ongoing will be negotiated on a case by case basis. Where a dial-up facility is required, dial circuits will be installed in the BellSouth data center by BellSouth and the associated charges assessed to Global Crossing. Additionally, all message toll charges associated with the use of the dial circuit by Global Crossing will be the responsibility of Global Crossing. Associated equipment on the BellSouth end, including a modem, will be negotiated on a case by case basis between the parties. All equipment, including modems and software, that is required on Global Crossing's end for the purpose of data transmission will be the responsibility of Global Crossing.

7.3 Packing Specifications

7.3.1 A pack will contain a minimum of one message record or a maximum of 99,999 message records plus a pack header record and a pack trailer record. One transmission can contain a maximum of 99 packs and a minimum of one pack.

7.3.2 The Operating Company Number (OCN). From Revenue Accounting Office (RAO), and Invoice Number will control the invoice sequencing. The From RAO will be used to identify to Global Crossing which BellSouth RAO that is sending the message. BellSouth and Global Crossing will use the invoice sequencing to control data exchange. BellSouth will be notified of sequence failures identified by Global Crossing and resend the data as appropriate.

THE DATA WILL BE PACKED USING ATIS EMI RECORDS.

BELLSOUTH/GLOBAL CROSSING RATES
ODUF/EDOUF/CMDS

DESCRIPTION	USOC	RATES BY STATE								
		AL	FL	GA	KY	LA	MS	NC	SC	TN
[illegible] ding, per message	N/A	$0 0002	$0 008	$0 008	$0 0008611	$0 00019	$0 0001179	$0 008	$0 0002862	$0 008
[illegible] ssage Processing, per message	N/A	$0 0033	$0 004	$0 004	$0 0032357	$0 0024	$0 0032089	$0 004	$0 0032144	$0 004
[illegible] ssage Processing, per message	N/A	$0 004	$0 004	$0 004	$0 004	$0 004	$0 004	$0 004	$0 004	$0 004
CMDS: Message Processing, per magnetic tape provisioned	N/A	$0 004	$0 004	$0 004	$0 004	$0 004	$0 004	$0 004	$0 004	$0 004
EODUF: Message Processing, per magnetic tape provisioned	N/A	$55 19	$54 95	$54 95	$55 68	$47 30	$54 62	$54 95	$54 72	$54 95
ODUF: Data Transmission (CONNECT:DIRECT), per message	N/A	$47 30	$47 30	$47 30	$47 30	$47 30	$47 30	$47 30	$47 30	$47 30
EODUF: Data Transmission (CONNECT:DIRECT), per message	N/A	$0 00004	$0 001	$0 001	$0 0000365	$0 00003	$0 0000354	$0 001	$0 0000357	$0 001
CMDS: Data Transmission (CONNECT:DIRECT), per message	N/A	$0 0000364	$0 0000364	$0 0000364	$0 0000364	$0 0000364	$0 0000364	$0 0000364	$0 0000364	$0 0000364
* Volume and term arrangements are also available.		$0 001	$0 001	$0 001	$0 001	$0 001	$0 001	$0 001	$0 001	$0 001

NOTES:
If no rate is identified in the contract, the rate for the specific service or function will be as set forth in applicable BellSouth tariff or as negotiated by the parties upon request by either party

Attachment 2

Network Elements and Other Services

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ACCESS TO NETWORK ELEMENTS AND OTHER SERVICES

1. Introduction

1.1. This Attachment sets forth the unbundled network elements and combinations of unbundled network elements that BellSouth agrees to offer to Global Crossing in accordance with its obligations under Section 251(c)(3) of the Act. The specific terms and conditions that apply to the unbundled network elements are described below in this Attachment 2. The price for each unbundled network element and combination of unbundled Network Elements are set forth in Exhibit A of this Agreement. As an option, deaveraged rates, where available, are included in Exhibit A. Where deaveraged rates are available, Global Crossing is required to choose either deaveraged rates, which are zone specific, or statewide rates.

1.2. For purposes of this Agreement, "Network Element" is defined to mean a facility or equipment provided by BellSouth on an unbundled basis as is used by the CLEC in the provision of a telecommunications service. These unbundled network elements will be consistent with the requirements of the FCC 319 rule. For purposes of this Agreement, combinations of Network Elements shall be referred to as "Combinations."

1.2.1. Except as otherwise required by law, BellSouth shall not impose limitation restrictions or requirements or request for the use of the network elements or combinations that would impair the ability of Global Crossing to offer telecommunications service in the manner Global Crossing intends.

1.2.2. Except upon request by Global Crossing, BellSouth shall not separate requested network elements that BellSouth currently combines.

1.2.2.1. Unless otherwise ordered by an appropriate state or federal regulatory agency, currently combined Network Elements are defined as elements that are already combined within BellSouth's network to a given location.

1.3. BellSouth shall, upon request of Global Crossing, and to the extent technically feasible, provide to Global Crossing access to its network elements for the provision of Global Crossing's telecommunications service. If no rate is identified in the contract, the rate for the specific service or function will be as set forth in applicable BellSouth tariff or as negotiated by the Parties upon request by either Party.

1.4. Global Crossing may purchase network elements and other services from BellSouth for the purpose of combining such network elements in any manner Global Crossing chooses to provide telecommunication services to its intended users, including

recreating existing BellSouth services. With the exception of the sub-loop elements which are located outside of the central office, BellSouth shall deliver the network elements purchased by Global Crossing for combining to the designated Global Crossing collocation space. The network elements shall be provided as set forth in this Attachment.

1.5. Subject to applicable and effective FCC Rules and Orders as well as effective State Commission Orders, BellSouth will offer combinations of network elements pursuant to such orders. BellSouth will provide the following combined network elements for purchase by Global Crossing. The rate of the following combined network elements is the sum of the individual element prices as set forth in this Attachment. Order Coordination as defined in Section 2 of Attachment 2 of this Agreement is available for each of these combinations:

- SL2 loop and cross connect
- Port and cross connect
- Port and cross connect and common (shared) transport
- Port and vertical features
- SL2 Loop with loop concentration
- Port and common (shared) transport
- SL2 Loop and LNP

1.6. BellSouth shall comply with the requirements as set forth in the technical references within Attachment 2 to the extent that they are consistent with the greater of BellSouth's actual performance or applicable industry standards.

1.7. In the event that any effective legislative, regulatory, judicial or other legal action modifies or redefines the "Network Elements" in a manner which materially affects the terms of this Attachment or the Network Elements and/or prices set forth herein, either Party may, on thirty (30) days written notice, require renegotiation of such terms, and the Parties shall renegotiate in good faith such new terms in accordance with such legislative, regulatory, judicial or other legal action. In the event such new terms are not renegotiated within ninety (90) days after the notice for renegotiation, either Party may petition the Commission for resolution of the dispute between the Parties. Each Party reserves the right to seek judicial review of any Commission ruling concerning this Attachment.

1.8. Global Crossing will adopt and adhere to the standards contained in the applicable CLEC Work Center Operational Understanding Agreement regarding maintenance and installation of service.

1.9. Standards for Network Elements

1.9.1 BellSouth shall comply with the requirements set forth in the technical references, as well as any performance or other requirements identified in this Agreement, to the

extent that they are consistent with the greater of BellSouth's actual performance or applicable industry standards.

1.9.2 If one or more of the requirements set forth in this Agreement are in conflict, the parties shall mutually agree on which requirement shall apply. If the parties cannot reach agreement, the dispute resolution process set forth in Section 12 of the General Terms and Conditions of this Agreement, incorporated herein by this reference, shall apply.

2. Unbundled Loops, Integrated Digital Loop Carriers, Network Interfaces Device, Unbundled Loop Concentration (ULC) System, Sub loops and Dark Fiber

All of the negotiated rates, terms and conditions set forth in this Section pertain to the provision of unbundled loops.

2.1 Unbundled Loops

2.1.1 Definition

2.1.2 The local loop network element ("Loop(s)") is defined as a transmission facility between a distribution frame (or its equivalent) in BellSouth's central office and the loop demarcation point at an end-user customer premises, including inside wire owned by BellSouth. The local loop network element includes all features, functions, and capabilities of the transmission facilities, including dark fiber and attached electronics (except those used for the provision of advanced services, such as Digital Subscriber Line Access Multiplexers) and line conditioning. The loop shall include the use of all test access functionality, including without limitation, smart jacks, for both voice and data.

2.1.3 The provisioning of service to a CLEC will require cross-office cabling and cross-connections within the central office to connect the loop to a local switch or to other transmission equipment in collocation space. These cross-connects are a separate element and are not considered a part of the loop.

2.1.4 BellSouth Order Coordination referenced in Attachment 2 includes two types: "Order Coordination" and "Order Coordination - Time Specific."

2.1.5 "Order Coordination" refers to standard BellSouth service order coordination involving SL2 voice loops and all digital loops. Order coordination for physical conversions will be scheduled at BellSouth's discretion during normal working hours on the committed due date and Global Crossing advised.

2.1.6 "Order Coordination – Time Specific" refers to service order coordination in which Global Crossing requests a specific time for a service order conversion to take place. Loops on a single service order of 14 or more loops will be provisioned on a project

basis. This is a chargeable option for any coordinated order and is billed in addition to the OC charge. Global Crossing may specify a time between 9:00 a.m. and 4:00 p.m. (location time) Monday through Friday (excluding holidays). If Global Crossing specifies a time outside this window, or selects a time or quantity of loops that requires BellSouth technicians to work outside normal work hours, overtime charges will apply in addition to the OC and OC-TS charges. Overtime charges will be applied according to actual costs based on type of force group required to perform the work, overtime hours worked and any special circumstances.

2.1.7 Where facilities are available, BellSouth will install loops within a 5-7 business days interval. For orders of 14 or more loops, the installation will be handled on a project basis and the intervals will be set by the BellSouth project manager for that order. Some loops require a Service Inquiry (SI) to determine if facilities are available prior to issuing the order. The interval for the SI process is separate from the installation interval. For expedite requests by Global Crossing, expedite charges will apply for intervals less than 5 days. The charges outlined in BellSouth's FCC # 1 Tariff, Section 5.1.1, will apply. If Global Crossing cancels an order for network elements and other services, any costs incurred by BellSouth in conjunction with the provisioning of that order will be recovered in accordance with FCC #1 Tariff, Section 5.4.

2.1.8 If Global Crossing modifies an order after being sent a Firm Order Confirmation (FOC) from BellSouth, any costs incurred by BellSouth to accommodate the modification will be reimbursed by Global Crossing.

2.1.9 BellSouth will offer Unbundled Voice Loops (UVL) in two different service levels - Service Level One (SL1) and Service Level Two (SL2).

2.1.10 SL1 loops will be non-designed, will not have test points, and will not come with any Order Coordination (OC) or engineering information/circuit make-up data. Upon issuance of an order in the service order system, SL1 loops will be activated on the due date in the same manner and time frames that BellSouth normally activates POTS-type loops for its customers. If Global Crossing requests work to be done for SL1s that requires BellSouth technicians to work outside normal work hours, overtime charges will be applied according to actual costs based on type of force group required to perform the work, overtime hours worked and any special circumstances.

2.1.11 SL2 loops shall have test points, with or without conditioning, will be designed with a design layout record provided to Global Crossing, and will be provided with OC. The OC feature will allow Global Crossing to coordinate the installation of the loop with the disconnect of an existing customer's service and/or number portability service. In these cases, BellSouth will perform the order conversion with standard order coordination at its discretion during normal work hours.

2.1.12 BellSouth will also offer Unbundled Digital Loops (UDL). They will be designed, will be provisioned with test points (where appropriate), and will come standard with Order Coordination and a Design Layout Record (DLR).

2.1.13 As a chargeable option on all loops except UVL-SL1 and UCL, BellSouth will offer Order Coordination - Time Specific (OC-TS). This will allow Global Crossing the ability to specify the time that the coordinated conversion takes place. The OC-TS charge for orders due on the same day at the same location will be applied on a per Local Service Request (LSR) basis.

2.1.14 Global Crossing will be responsible for testing and isolating troubles on the loops. Once Global Crossing has isolated a trouble to the BellSouth provided loop, Global Crossing will issue a trouble to BellSouth on the loop. BellSouth will take the actions necessary to repair the loop if a trouble actually exists. BellSouth will repair these loops in the same time frames that BellSouth repairs similarly situated loops to its customers.

2.1.15 If Global Crossing reports a trouble on SL1 loops and no trouble actually exists, BellSouth will charge Global Crossing for any dispatching and testing (both inside and outside the CO) required by BellSouth in order to confirm the loop's working status.

2.1.16 If Global Crossing reports a trouble on SL2 loops and no trouble actually exists, BellSouth will charge Global Crossing for any dispatching and testing, (outside the CO) required by BellSouth in order to confirm the loop's working status.

2.1.17 In addition to the UVLs and UDLs, BellSouth shall make available an Unbundled Copper Loop (UCL). The UCL will be a copper twisted pair loop that is unencumbered by any intervening equipment (e.g., filters, load coils, range extenders, digital loop carrier, or repeaters). The UCL will be offered in two versions - Short and Long. A short UCL (18 kft or less) will be provisioned according to Resistance Design parameters. The long UCL (beyond 18kft) will be used when a CLEC wants to condition copper loops longer than 18kft by removing load coils and other intervening equipment. BST will only ensure electrical continuity and balance relative to tip and ring on UCLs.

2.1.18 The UCL will be a designed circuit, with or without conditioning, provisioned with a test point and come standard with a DLR. OC will be offered as a chargeable option on all UCL loops. Order Coordination – Time Specific (OC-TS) will not be offered on UCLs.

2.1.19 The UCL is a dry cooper loop and is not intended to support any particular telecommunications service. Global Crossing may use the UCL loop for a variety of

services, including xDSL (e.g., ADSL and HDSL) services, by attaching appropriate terminal equipment of Global Crossing's choosing. Global Crossing will determine the type of service that will be provided over the loop.

2.1.20 Because the UCL loop shall be an unbundled loop offering that is separate and distinct from BellSouth's ADSL and HDSL capable loop offerings, CLEC agrees that BellSouth's UCL loop will not be held to the service level and performance expectations that apply to its ADSL and HDSL unbundled loop offerings. BellSouth shall only be obligated to maintain copper continuity and provide balance relative to tip and ring on UCL loops.

2.1.21 The UCL loop shall be provided to CLEC in accordance with BellSouth's Technical Reference 73600.

2.1.22 Technical Requirements

2.1.22.1 To the extent available within BellSouth's Network at a particular location, BellSouth will offer loops capable of supporting telecommunications services such as: POTS, Centrex, basic rate ISDN, analog PBX, voice grade private line, ADSL, HDSL, DS1 and digital data (up to 64 kb/s). If a requested loop type is not available, then the CLEC can use the Special Construction process to request that BellSouth place facilities or otherwise modify facilities in order to meet Global Crossing's request.

2.1.22.2 Global Crossing will be responsible for providing BellSouth with a Service Profile Identifier (SPID) associated with a particular ISDN-capable loop and end user. With the SPID, BellSouth will be able to adequately test the circuit and ensure that it properly supports ISDN service.

2.1.22.3 The loop will support the transmission, signaling, performance and interface requirements of the services described in 2.1.3 above. It is recognized that the requirements of different services are different, and that a number of types or grades of loops are required to support these services. Services provided over the loop by Global Crossing will be consistent with industry standards and BellSouth's TR73600.

2.1.22.4 Global Crossing may utilize the unbundled loops to provide any telecommunication service it wishes. However, BellSouth will only provision, maintain and repair the loops to the standards that are consistent with the type of loop ordered. For example, if Global Crossing orders an ISDN-capable loop but wants to use the loop for a service other than ISDN, BellSouth will only support that the loop is capable of providing ISDN service. For non-service specific loops (e.g. UCL, loops modified by Global Crossing using the Special Construction process), BellSouth will only support that the loop has copper continuity and balanced tip-and-ring.

2.1.22.5 In some instances, Global Crossing will require access to a copper twisted pair loop unfettered by any intervening equipment (e.g., filters, load coils, range extenders, etc.), so that Global Crossing can use the loop for a variety of services by attaching

appropriate terminal equipment at the ends. Global Crossing will determine the type of service that will be provided over the loop. In some cases, Global Crossing may be required to pay additional charges for the removal of certain types of equipment. BellSouth's Special Construction process will be used to determine the costs and feasibility of these activities.

2.1.22.6 In cases in which Global Crossing has requested that BellSouth remove equipment from the BellSouth loop, BellSouth will no longer be expected to maintain and repair the loop to the standards specified for that loop type in the TR73600 and other standards referenced in this Agreement. BellSouth will only support that these loops provide electrical continuity and balance relative to tip-and-ring.

2.1.22.7 Global Crossing, in performance of its obligations pursuant to the preceding Section, shall maintain records that will reflect that pursuant to Global Crossing's request BellSouth has removed certain equipment from BellSouth provided loops and as such the loop may not perform within the technical specifications associated with that loop type. Global Crossing will not report to BellSouth troubles on said loops where the loops are not performing within the technical specifications of that loop type.

2.1.22.8 In addition, Global Crossing recognizes there may be instances where a loop modified in this manner may be subjected to normal network configuration changes that may cause the circuit characteristics to be changed and may create an outage of the service that Global Crossing has placed on the loop. If this occurs, BellSouth will work cooperatively with Global Crossing to restore the circuit to its previous modified status as quickly as possible. Global Crossing will pay the Time and Materials costs associated with BellSouth's work efforts needed to bring the loop back to its previous modified status.

2.1.22.9 The loop shall be provided to Global Crossing in accordance with BellSouth's TR73600 Unbundled Local Loop Technical Specification and applicable industry standard technical references.

2.2 Loop Conditioning

2.2.1 Subject to applicable and effective FCC rules and orders, BellSouth shall condition loops, as requested by Global Crossing, whether or not BellSouth offers advanced services to the End User on that loop.

2.2.2 Loop conditioning is defined as the removal from the loop of any devices that may diminish the capability of the loop to deliver high-speed switched wireline telecommunications capability, including xDSL service. Such devices include, but are not limited to, bridge taps, low pass filters, and range extenders.

2.2.3 BellSouth shall recover the cost of line conditioning requested by Global Crossing through a recurring charge and/or nonrecurring charge(s) in accordance with the FCC's forward-looking pricing principles promulgated pursuant to section 252 (d) (1) of the Act and in compliance with FCC Rule 52.507 (e).

2.3. Integrated Digital Loop Carriers

2.3.1 Where BellSouth uses Integrated Digital Loop Carrier (IDLC) systems to provide the local loop and BellSouth has a suitable alternate facility available, BellSouth will make arrangements to permit Global Crossing to order a contiguous local loop. To the extent it is technically feasible, these arrangements will provide Global Crossing with the capability to serve end users at a level that is at parity with the level of service BellSouth provides its customers. If no alternate facility is available, BellSouth will utilize its Special Construction (SC) process to determine the additional costs required to provision the loop facilities. Global Crossing will then have the option of paying the one-time SC rates to place the loop facilities or Global Crossing may chose some other method of providing service to the end-user (e.g., Resale, private facilities, etc.).

2.4 Network Interface Device

2.4.1 Definition

The NID is defined as any means of interconnection of end-user customer premises wiring to BellSouth's distribution plant, such as a cross-connect device used for that purpose. The NID is a single-line termination device or that portion of a multiple-line termination device required to terminate a single line or circuit at the premises. The NID features two independent chambers or divisions that separate the service provider's network from the End User's on-premises wiring. Each chamber or division contains the appropriate connection points or posts to which the service provider and the End User each make their connections. The NID provides a protective ground connection and is capable of terminating cables such as twisted pair cable.

2.4.2. BellSouth shall permit Global Crossing to connect Global Crossing's loop facilities to on-premises wiring through the BellSouth NID or at any other technically feasible point.

2.4.3 Access to Network Interface Device (NID)

2.4.3.1. Due to the wide variety of NIDs utilized by BellSouth (based on subscriber size and environmental considerations), Global Crossing may access the on-premises wiring by any of the following means: BellSouth shall allow Global Crossing to connect its loops directly to BellSouth's multi-line residential NID enclosures that have

additional space and are not used by BellSouth or any other telecommunications carriers to provide service to the premise. Global Crossing agrees to install compatible protectors and test jacks and to maintain the protection system and equipment and to indemnify BellSouth pursuant to Section 8 of the General Terms and Conditions of this Agreement.

2.4.3.2. Where an adequate length of on-premises wiring is present and environmental conditions permit, either Party may remove the on-premises wiring from the other Party's NID and connect that wire to that Party's own NID; or

2.4.3.3. Enter the subscriber access chamber or "side" of "dual chamber" NID enclosures for the purpose of extending a connecterized or spliced jumper wire from the on-premises wiring through a suitable "punch-out" hole of such NID enclosures; or

2.4.3.4. Request BellSouth to make other rearrangements to the on-premises wiring terminations or terminal enclosure on a time and materials cost basis to be charged to the requesting Party (i.e., Global Crossing, its agent, the building owner or the subscriber). Such charges will be billed to the requesting Party.

2.4.3.5. In no case shall either Party remove or disconnect the other Party's loop facilities from either Party's NIDs, enclosures, or protectors, without state regulatory requirement, without providing prior notice to the other Party, and without appropriately capping off and guarding the other Party's loop. In such cases, it shall be the responsibility of the disconnecting party to properly ground the other party's loop, maintain the NID, and assume full liability for its action and any adverse consequences.

2.4.3.6. In no case shall either Party remove or disconnect ground wires from BellSouth's NIDs, enclosures, or protectors.

2.4.3.7. In no case shall either Party remove or disconnect NID modules, protectors, or terminals from BellSouth's NID enclosures.

2.4.3.8. Due to the wide variety of NID enclosures and outside plant environments BellSouth will work with Global Crossing to develop specific procedures to establish the most effective means of implementing this Section, 2.4.3.

2.4.4 Technical Requirements

2.4.4.1 The NID shall provide an accessible point of interconnection and shall maintain a connection to ground.

2.4.4.2 The NID shall be capable of transferring electrical analog or digital signals between the subscriber's inside wiring and the Distribution Media and/or cross connect to

Global Crossing's NID, consistent with the NID's function at the Effective Date of this Agreement.

2.4.4.3 Where a BellSouth NID exists, it is provided in its "as is" condition. Global Crossing may request BellSouth do additional work to the NID in accordance with Section 2.4.3.8.

2.4.4.4 When Global Crossing deploys its own local loops with respect to multiple-line termination devices, Global Crossing shall specify the quantity of NIDs connections that it requires within such device.

2.4.5 Interface Requirements

2.4.5.1 The NID shall be equal to or better than all of the requirements for NIDs set forth in the applicable industry standard technical references.

2.5 Unbundled Loop Concentration (ULC) System

2.5.1 BellSouth will provide to Global Crossing Unbundled Loop Concentration (ULC). Loop concentration systems in the central office concentrate the signals transmitted over local loops onto a digital loop carrier system. The concentration device is placed inside a BellSouth central office. BellSouth will offer ULC with a TR008 interface or a TR303 interface.

2.5.2 ULC will be offered in two sizes. System A will allow up to 96 BellSouth loops to be concentrated onto multiple DS1s. The high-speed connection from the concentrator will be at the electrical DS1 level and may connect to Global Crossing at Global Crossing's collocation site. System B will allow up to 192 BellSouth loops to be concentrated onto multiple DS1s. System A may be upgraded to a System B. A minimum of two DS1s is required for each system (i.e., System A requires two DS1s and System B would require an additional two DS1s or four in total). All DS1 interfaces will terminate to the CLEC's collocation space. ULC service is offered with or without concentration and with or without protection. A Line Interface element will be required for each loop that is terminated onto the ULC system. Rates for ULC are as set forth in this Attachment.

2.6 Sub-loop Elements

2.6.1 Where facilities permit and subject to applicable and effective FCC rules and orders, BellSouth shall offer access to its Unbundled Sub Loop (USL), Unbundled Subloop Concentration (USLC) System and Unbundled Network Terminating Wire (UNTW) elements. BellSouth shall provide non-discriminatory access, in accordance with 51.311 and section 251(c) (3) of the Act, to the subloop. On an unbundled basis and

pursuant to the following terms and conditions and the rates approved by the Commission and set forth in this Attachment.

2.6.2 Subloop components include but are not limited to the following:

2.6.2.1 Unbundled Sub-Loop Distribution;

2.6.2.2 Unbundled Sub-Loop Concentration/Multiplexing Functionality; and

2.6.2.3 Unbundled Network Terminating Wire; and

2.6.2.4 Unbundled Sub-Loop Feeder.

2.6.3 Unbundled Sub-Loop (distribution facilities)

2.6.3.1 Definition

2.6.3.2 Subject to applicable and effective FCC rules and orders, the unbundled sub-loop distribution facility is dedicated transmission facility that BellSouth provides from a customer's point of demarcation to a BellSouth cross-connect device. The BellSouth cross-connect device may be located within a remote terminal (RT) or a stand-alone cross-box in the field or in the equipment room of a building. There are two offerings available for Unbundled Sub-Loops (USL):

2.6.3.3 Unbundled Sub-Loop Distribution (USL-D) will include the sub-loop facility from the cross-box in the field up to and including the point of demarcation.

2.6.3.4 BellSouth will also provide sub-loop interconnection to the intrabuilding network cable (INC) (riser cable). INC is the distribution facility inside a subscriber's building or between buildings on one customer's same premises (continuous property not separated by a public street or road). USL-INC (riser cable) will include the facility from the cross-connect device in the building equipment room up to and including the point of demarcation.

2.6.4. Requirements for Unbundled Sub-Loop Distribution Facilities

2.6.4.1 Unbundled Sub-Loop distribution facilities were originally built as part of the entire voice grade loop from the BellSouth central office to the customer network interface. Therefore, the Unbundled Sub-Loop may have load coils, which are necessary for transmission of voice grade services. The Unbundled Sub-Loops will be provided in accordance with technical reference TR73600.

2.6.4.2 Unbundled Sub-Loop distribution facilities shall support functions associated with provisioning, maintenance and testing of the Unbundled Sub-Loop. In a scenario that involves connection at a BellSouth cross-box located in the field, Global Crossing would be required to deliver a cable to the BellSouth remote terminal or cross-box to provide continuity to Global Crossing's feeder facilities. This cable would be connected, by a BellSouth technician, to a cross-connect panel within the BellSouth RT/cross-box. Global Crossing's cable pairs can then be connected to BellSouth's USL within the BellSouth cross-box by the BellSouth technician. In a scenario that requires connection in a building equipment room, BellSouth will install a cross connect panel on which access to the requested sub-loops will be connected. The CLEC's cable pairs can then be connected to the Unbundled Sub-Loop pairs on this cross-connect panel by the BellSouth technician.

2.6.4.3 BellSouth will provide Unbundled Sub-Loops where possible. Through the firm order Service Inquiry (SI) process, BellSouth will determine if it is feasible to place the required facilities where Global Crossing has requested access to Unbundled Sub-Loops. If existing capacity is sufficient to meet the CLEC demand, then BellSouth will perform the set-up work as described in the next section 2.6.4.4 . If any work must be done to modify existing BellSouth facilities or add new facilities (other than adding the cross-connect panel in a building equipment room as noted in 2.6.4.4) to accommodate Global Crossing's request for Unbundled Sub-Loops, BellSouth will use its Special Construction (SC) process to determine the additional costs required to provision the Unbundled Sub-Loops. Global Crossing will then have the option of paying the one-time SC charge to modify the facilities to meet Global Crossing's request.

2.6.4.4 During the initial set-up in a BellSouth cross-connect box in the field, the BellSouth technician will perform the necessary work to splice the CLEC's cable into the cross-connect box. For the set-up inside a building equipment room, BellSouth will perform the necessary work to install the cross-connect panel that will be used to provide access to the requested USLs. Once the set-up is complete, the CLEC requested sub-loop pairs would be provisioned through the service order process based on the submission of a LSR to the LCSC.

2.6.5 Interface Requirements

2.6.5.1 Unbundled Sub-Loop shall be equal to or better than each of the applicable requirements set forth in the applicable industry standard technical references.

2.6.6 **Unbundled Sub-Loop Concentration System (USLC)**

2.6.6.1 Where facilities permit and where necessary to comply with an effective Commission order, BellSouth will provide to Global Crossing with the ability to concentrate its

sub-loops onto multiple DS1s back to the BellSouth Central Office. The DS1s will then be terminated into Global Crossing's collocation space. TR-008 and TR303 interface standards are available.

2.6.6.2 USLC, using the Lucent Series 5 equipment, will be offered in two different systems. System A will allow up to 96 of Global Crossing's sub-loops to be concentrated onto multiple DS1s. System B will allow an additional 96 of Global Crossing's sub-loops to be concentrated onto multiple DS1s. One System A may be supplemented with one System B and they both must be physically located in a single Series 5 dual channel bank. A minimum of two DS1s is required for each system (i.e., System A requires two DS1s and System B would require an additional two DS1s or four in total). The DS1 level facility that connects the RT site with the serving wire center is known as a Feeder Interface. All DS1 Feeder Interfaces will terminate to the CLEC's collocation space within the SWC that serves the RT where the CLEC's sub-loops are connected. USLC service is offered with or without concentration and with or without a protection DS1.

2.6.6.3 In these scenarios Global Crossing would be required to place a cross-box, remote terminal (RT), or other similar device and deliver a cable to the BellSouth remote terminal. This cable would be connected, by a BellSouth technician, to a cross-connect panel within the BellSouth RT/cross-box and would allow Global Crossing's sub-loops to then be placed on the ULSC and transported to their collocation space at a DS1 level.

2.6.7 Unbundled Network Terminating Wire (UNTW)

2.6.7.1 BellSouth agrees to offer its Unbundled Network Terminating Wire (UNTW) to Global Crossing pursuant to the following terms and conditions at rates as set forth in this Attachment.

2.6.7.2 Definition

2.6.7.2.1 Subject to applicable and effective FCC rules and orders, UNTW is a dedicated transmission facility that BellSouth provides from the Wiring Closet /Garden Terminal (or other type of cross-connect point) at the point of termination of BellSouth's loop distribution facilities to the end user's point of demarcation.

2.6.7.3 Requirements

2.6.7.3.1 BellSouth will offer spare pairs that are available to an end user's premises to Global Crossing. Available spare pairs are defined as pairs that are not being utilized by BellSouth or by a third party to provide an end user with working service at the time of Global Crossing's request for UNTW. If no spare pairs are available and the end user is no longer using BellSouth's local service, BellSouth will relinquish the first

pair to Global Crossing. If after BellSouth has relinquished the first pair to Global Crossing and the end user decides to change local service providers to BellSouth, Global Crossing will relinquish the first pair back to BellSouth.

2.6.7.3.2 Notwithstanding the foregoing, should BellSouth subsequently require the use of additional pair(s) to provide for the activation of additional lines in an end users premises in response to a request from such end user, Global Crossing agrees to surrender their spare pair(s) upon request by BellSouth.

2.6.7.3.3 If an end user of Global Crossing desires to receive local exchange service from a service provider who is not a Party to this Agreement, and such third party service provider needs access to the BellSouth UNTW to provide local exchange service to the end user, then Global Crossing agrees to surrender the requisite number of its inactive spare pair(s) if no other spare pair is available and upon request by BellSouth.

2.6.7.3.4 If Global Crossing has placed NTW at a location and an end user desires to receive local exchange service from BellSouth and BellSouth needs access to Global Crossing's NTW to provide local exchange service to the end user, then Global Crossing agrees to surrender the requisite number of its spare pair(s) upon request by BellSouth.

2.6.7.3.5 In new construction, where possible, both Parties may at their option and with the property owner's agreement install their own NTW. In existing construction, BellSouth shall not be required to install new or additional NTW beyond existing NTW to provision the services of the CLEC.

2.6.8 Technical Requirements

2.6.8.1 In these scenarios, BellSouth will connect the requested UNTW pairs to a single point of interconnection (SPOI) designed for CLEC access to BellSouth's NTW. The SPOI will be installed either near BellSouth's garden terminal or wiring closet. Global Crossing will be required to place a cross-box, terminal or other similar device and deliver a cable to this SPOI. Global Crossing will then connect their cable to the cross-connect panel to access the requested UNTW pairs.

2.7 Dark Fiber

2.7.1 Defintion

Dark Fiber is optical transmission facilities without attached multiplexing, aggregation or other electronics that connects two points within BellSouth's network. Dark Fiber also includes strands of optical fiber existing in aerial or underground cable which may have lightwave repeater (regenerator or optical amplifier) equipment interspliced to it at appropriate distances, but which has no line terminating elements terminated to such strands to operationalize its transmission capabilities.

2.7.2 Requirements

2.7.2.1 BellSouth shall make available Dark Fiber where it exists in BellSouth's network and where, as a result of future building or deployment, it becomes available. If BellSouth has plans to use the fiber within a two –year planning period, there is no requirement to provide said fiber to Global Crossing.

2.7.2.2 If the requested dark fiber has any lightwave repeater equipment interspliced to it, BellSouth will remove such equipment at Global Crossing's request subject to time and materials charges.

2.7.2.3 Global Crossing may test the quality of the Dark Fiber to confirm its usability and performance specifications.

2.7.2.4 BellSouth shall use its best efforts to provide to Global Crossing information regarding the location, availability and performance of Dark Fiber within ten (10) business days for a records based answer and twenty (20) business days for a field based answer, after receiving a request from Global Crossing ("Request"). Within such time period, BellSouth shall send written confirmation of availability of the Dark Fiber ("Confirmation"). From the time of the Request to forty-five (45) days after Confirmation, BellSouth shall hold such requested Dark Fiber for Global Crossing's use and may not allow any other party to use such media, including BellSouth.

2.7.2.5 BellSouth shall use its best efforts to make Dark Fiber available to Global Crossing within thirty (30) business days after it receives written confirmation from Global Crossing that the Dark Fiber previously deemed available by BellSouth is wanted for use by Global Crossing. This includes identification of appropriate connection points (e.g., Light Guide Interconnection (LGX) or splice points) to enable Global Crossing to connect or splice Global Crossing provided transmission media (e.g., optical fiber) or equipment to the Dark Fiber.

2.7.2.6 Dark Fiber shall meet the manufacturer's design specifications.

2.7.2.7 Global Crossing may splice and test Dark Fiber obtained from BellSouth using Global Crossing or Global Crossing designated personnel. BellSouth shall provide appropriate interfaces to allow splicing and testing of Dark Fiber. BellSouth shall provide an excess cable length of 25 feet minimum (for fiber in underground conduit) to allow the uncoiled fiber to reach from the manhole to a splicing van.

2.8 Rates

The prices that Global Crossing shall pay to BellSouth for Network Elements and Other Services are set forth in Exhibit C to this Attachment.

2.9 Operational Support Systems (OSS)

BellSouth has developed and made available the following mechanized systems by which Global Crossing may submit LSRs electronically.

LENS	Local Exchange Navigation System
EDI	Electronic Data Interchange
TAG	Telecommunications Access Gateway

2.9.1 LSRs submitted by means of one of these interactive interfaces will incur an OSS electronic ordering charge as specified in the table below. An individual LSR will be identified for billing purposes by its Purchase Order Number (PON). LSRs submitted by means other than one of these interactive interfaces (mail, fax, courier, etc.) will incur a manual order charge as specified in the table below:

OPERATIONAL SUPPORT SYSTEMS	AL, GA, LA, MS, SC	FL, KY, NC, TN
OSS LSR charge, per LSR received from the CLEC by one of the OSS interactive interfaces	$3.50 SOMEC	$3.50 SOMEC
Incremental charge per LSR received from the CLEC by means other than one of the OSS interactive interfaces	See applicable rate element	$19.99 SOMAN

2.9.2 Denial/Restoral OSS Charge

In the event Global Crossing provides a list of customers to be denied and restored, rather than an LSR, each location on the list will require a separate PON and, therefore will be billed as one LSR per location.

2.9.3 Cancellation OSS Charge

Global Crossing will incur an OSS charge for an accepted LSR that is later canceled by Global Crossing.

Note: Supplements or clarifications to a previously billed LSR will not incur another OSS charge.

2.9.4 Network Elements and Other Services Manual Additive

2.9.4.1 The Commissions in some states have ordered per-element manual additive non-recurring charges (NRC) for Network Elements and Other Services ordered by means other than one of the interactive interfaces. These ordered Network Elements and Other Services manual additive NRCs will apply in these states, rather than the charge per LSR. The per-element charges are listed on the Rate Tables in Exhibit A.

3. **Switching**

All of the negotiated rates, terms and conditions set forth in this Section pertain to the provision of local and tandem switching.

3.1 **Local Switching**

BellSouth shall provide non-discriminatory access to local circuit switching capability, and local tandem switching capability, on an unbundled basis, except as set forth below in Section 3.1.3 to Global Crossing for the provision of a telecommunications service. BellSouth shall provide non-discriminatory access to packet switching capability on an unbundled basis to Global Crossing for the provision of a telecommunications service only in the limited circumstance described below in Section 3.3.4.6.

3.1.1. Except as otherwise provided herein, BellSouth shall not impose any restrictions on Global Crossing regarding the use of Switching Capabilities purchased from BellSouth provided such use does not result in demonstrable harm to either the BellSouth network or personnel or the use of the BellSouth network by BellSouth or any other telecommunication carrier.

3.1.2. Local Circuit Switching Capability, including Tandem Switching Capability

3.1.2.1 Definition

Local Circuit Switching Capability is defined as: (A) line-side facilities, which include, but are not limited to, the connection between a loop termination at a main distribution frame and a switch line card; (B) trunk-side facilities, which include, but are not limited to, the connection between trunk termination at a trunk-side cross-connect panel and a switch trunk card; and (C) All features, functions, and capabilities of the switch, which include, but are not limited to: (1) the basic switching function of connecting lines to lines, line to trunks, trunks to lines, and trunks to trunks, as well as the same basic capabilities made available to BellSouth's customers, such as a telephone number, white page listings, and dial tone; and (2) all other features that the switch is capable of providing, including but not limited to customer calling, customer local area signaling service features, and Centrex, as well as any technically feasible customized routing functions provided by the switch; (D) switching provided by remote switching modules.

3.1.2.2 When utilizing BellSouth's local circuit switching capability, local traffic shall be defined as set forth in Part B of the General Terms and Conditions.

3.1.3 Notwithstanding BellSouth's general duty to unbundle local circuit switching, BellSouth shall not be required to unbundle local circuit switching for Global Crossing when Global Crossing serves end-users with four (4) or more voice-grade (DS-0) equivalents or lines in locations served by BellSouth's local circuit switches, which are in the following MSAs: Atlanta, GA; Miami, FL; Orlando, FL; Ft. Lauderdale, FL; Charlotte-Gastonia-Rock Hill, NC; Greensboro-Winston Salem-High Point, NC; Nashville, TN; and New Orleans, LA, and BellSouth has provided non-discriminatory cost based access to the Enhanced Extended Link (EEL) throughout Density Zone 1 as determined by NECA Tariff No. 4 as in effect on January 1, 1999.

3.1.4 In the event that Global Crossing orders local circuit switching for a single end user account name at a single physical end user location with four (4) or more two (2) wire voice-grade loops from a BellSouth central office listed on Exhibit A, BellSouth's sole recourse shall be to charge Global Crossing a rate to be negotiated for use of the local circuit switching functionality for the affected facilities, or in the alternative, to charge Global Crossing the local services resale rate for use of all Combinations used to provide the affected facilities to Global Crossing.

3.1.5 A featureless port is one that has a line port, switching facilities, and an interoffice port. A featured port is a port that includes all features then capable or a number of then capable features specifically requested by Global Crossing. Any features that are not currently then capable but are technically feasible through the switch can be requested through the BFR process.

3.1.6 BellSouth will provide to Global Crossing customized routing of calls: (i) to a requested directory assistance services platform; (ii) to an operator services platform pursuant to Section 10 of Attachment 2; (iii) for Global Crossing's PIC'ed toll traffic in a two (2) PIC environment to an alternative OS/DA platform designated by Global Crossing. Global Crossing customers may use the same dialing arrangements as BellSouth customers.

3.1.7 Remote Switching Module functionality is included in Switching Capability. The switching capabilities used will be based on the line side features they support.

3.1.8 Switching Capability will also be capable of routing local, intraLATA, interLATA, and calls to international customer's preferred carrier; call features (e.g. call forwarding) and Centrex capabilities.

3.1.9 Where required to do so in order to comply with an effective Commission order, BellSouth will provide to Global Crossing purchasing local BellSouth switching and reselling BellSouth local exchange service under Attachment 1, selective routing of calls to a requested directory assistance services platform or operator services

platform. Global Crossing customers may use the same dialing arrangements as BellSouth customers, but obtain a Global Crossing branded service.

3.2 Technical Requirements

3.2.1 The requirements set forth in this Section apply to Local Switching, but not to the Data Switching function of Local Switching.

3.2.1.1 Local Switching shall be equal to or better than the requirements for Local Switching set forth in the applicable industry standard technical references.

3.2.1.2 When applicable, BellSouth shall route calls to the appropriate trunk or lines for call origination or termination.

3.2.1.3 Subject to this section, BellSouth shall route calls on a per line or per screening class basis to (1) BellSouth platforms providing Network Elements or additional requirements (2) Operator Services platforms, (3) Directory Assistance platforms, and (4) Repair Centers. Any other routing requests by Global Crossing will be made pursuant to the Bona Fide Request/ New Business Request Process as set forth in General Terms and Conditions.

3.2.1.4 BellSouth shall provide unbranded recorded announcements and call progress tones to alert callers of call progress and disposition.

3.2.1.5 BellSouth shall activate service for an Global Crossing customer or network interconnection on any of the Local Switching interfaces. This includes provisioning changes to change a customer from BellSouth's services to Global Crossing's services without loss of switch feature functionality as defined in this Agreement.

3.2.1.6 BellSouth shall perform routine testing (e.g., Mechanized Loop Tests (MLT) and test calls such as 105, 107 and 108 type calls) and fault isolation on a mutually agreed upon schedule.

3.2.1.7 BellSouth shall repair and restore any equipment or any other maintainable component that may adversely impact Local Switching.

3.2.1.8 BellSouth shall control congestion points such as those caused by radio station call-ins, and network routing abnormalities. All traffic shall be restricted in a non-discriminatory manner.

3.2.1.9 BellSouth shall perform manual call trace and permit customer originated call trace.

3.2.1.10 Special Services provided by BellSouth will include the following:

3.2.1.10.1 Telephone Service Prioritization;

3.2.1.10.2 Related services for handicapped;

3.2.1.10.3 Soft dial tone where required by law; and

3.2.1.10.4 Any other service required by law.

3.2.1.11 BellSouth shall provide Switching Service Point (SSP) capabilities and signaling software to interconnect the signaling links destined to the Signaling Transfer Point Switch (STPS). These capabilities shall adhere to the technical specifications set forth in the applicable industry standard technical references.

3.2.1.12 BellSouth shall provide interfaces to adjuncts through Telcordia (formerly BellCore) standard interfaces. These adjuncts can include, but are not limited to, the Service Circuit Node and Automatic Call Distributors.

3.2.1.13 BellSouth shall provide performance data regarding a customer line, traffic characteristics or other measurable elements to Global Crossing, upon a reasonable request from Global Crossing. CLEC will pay BellSouth for all costs incurred to provide such performance data through the Business Opportunity Request process.

3.2.1.14 BellSouth shall offer Local Switching that provides feature offerings at parity to those provided by BellSouth to itself or any other Party. Such feature offerings shall include but are not limited to:

3.2.1.14.1 Basic and primary rate ISDN;

3.2.1.14.2 Residential features;

3.2.1.14.3 Customer Local Area Signaling Services (CLASS/LASS);

3.2.1.14.4 CENTREX (including equivalent administrative capabilities, such as customer accessible reconfiguration and detailed message recording); and

3.2.1.14.5 Advanced intelligent network triggers supporting Global Crossing and BellSouth service applications.

3.2.2 BellSouth shall offer to Global Crossing all AIN triggers in connection with its SMS/SCE offering which are supported by BellSouth for offering AIN-based services. Triggers that are currently available are:

3.2.2.1 Off-Hook Immediate

3.2.2.2 Off-Hook Delay

3.2.2.3 Termination Attempt

3.2.2.4 6/10 Public Office Dialing Plan

3.2.2.5 Feature Code Dialing

3.2.2.6 Customer Dialing Plan

3.2.3 When the following triggers are supported by BellSouth, BellSouth will make these triggers available to Global Crossing:

3.2.3.1 Private EAMF Trunk

3.2.3.2 Shared Interoffice Trunk (EAMF, SS7)

3.2.3.3 N11

3.2.3.4 Automatic Route Selection

3.2.4 Where capacity exists, BellSouth shall assign each Global Crossing customer line the class of service designated by Global Crossing (e.g., using line class codes or other switch specific provisioning methods), and shall route directory assistance calls from Global Crossing customers to Global Crossing directory assistance operators at Global Crossing's option.

3.2.5 Where capacity exists, BellSouth shall assign each Global Crossing customer line the class of services designated by Global Crossing (e.g., using line class codes or other switch specific provisioning methods) and shall route operator calls from Global Crossing customers to Global Crossing operators at Global Crossing's option. For example, BellSouth may translate 0- and 0+ intraLATA traffic, and route the call through appropriate trunks to an Global Crossing Operator Services Position System (OSPS). Calls from Local Switching must pass the ANI-II digits unchanged.

3.2.6 Local Switching shall be offered in accordance with the technical specifications set forth in the applicable industry standard references.

3.2.7 Interface Requirements

3.2.7.1 BellSouth shall provide the following interfaces to loops:

3.2.7.1.1 Standard Tip/Ring interface including loopstart or groundstart, on-hook signaling (e.g., for calling number, calling name and message waiting lamp);

3.2.7.1.2 Coin phone signaling;

3.2.7.1.3 Basic Rate Interface ISDN adhering to appropriate Telcordia (formerly BellCore) Technical Requirements;

3.2.7.1.4 Two-wire analog interface to PBX;

3.2.7.1.5 Four-wire analog interface to PBX;

3.2.7.1.6 Four-wire DS1 interface to PBX or customer provided equipment (e.g. computers and voice response systems);

3.2.7.1.7 Primary Rate ISDN to PBX adhering to ANSI standards Q.931, Q.932 and appropriate Telcordia (formerly BellCore) Technical Requirements;

3.2.7.1.8 Switched Fractional DS1 with capabilities to configure Nx64 channels (where N = 1 to 24); and

3.2.7.1.9 Loops adhering to Telcordia (formerly BellCore) TR-NWT-08 and TR-NWT-303 specifications to interconnect Digital Loop Carriers.

3.2.7.2 BellSouth shall provide access to the following but not limited to:

3.2.7.2.1 SS7 Signaling Network or Multi-Frequency trunking if requested by Global Crossing;

3.2.7.2.2 Interface to Global Crossing operator services systems or Operator Services through appropriate trunk interconnections for the system; and

3.2.7.2.3 Interface to Global Crossing Directory Assistance Services through the Global Crossing switched network or to Directory Assistance Services through the appropriate trunk interconnections for the system; and 950 access or other Global Crossing required access to interexchange carriers as requested through appropriate trunk interfaces.

3.3 Tandem Switching

3.3.1 Definition

Tandem Switching is the function that establishes a communications path between two switching offices through a third switching office (the Tandem switch).

3.3.2 Technical Requirements

3.3.2.1 Tandem Switching shall have the same capabilities or equivalent capabilities as those described in Bell Communications Research TR-TSY-000540 Issue 2R2, Tandem Supplement, 6/1/90. The requirements for Tandem Switching include, but are not limited to the following:

3.3.2.1.1 Tandem Switching shall provide signaling to establish a tandem connection;

3.3.2.1.2 Tandem Switching will provide screening as jointly agreed to by Global Crossing and BellSouth;

3.3.2.1.3 Tandem Switching shall provide Advanced Intelligent Network triggers supporting AIN features where such routing is not available from the originating end office switch, to the extent such Tandem switch has such capability;

3.3.2.1.4 Tandem Switching shall provide access to Toll Free number portability database as designated by Global Crossing;

3.3.2.1.5 Tandem Switching shall provide all trunk interconnections discussed under the "Network Interconnection" section (e.g., SS7, MF, DTMF, DialPulse, PRI-ISDN, DID, and CAMA-ANI (if appropriate for 911));

3.3.2.1.5.1 Tandem Switching shall provide connectivity to PSAPs where 911 solutions are deployed and the tandem is used for 911; and

3.3.2.1.5.2 Where appropriate, Tandem Switching shall provide connectivity to transit traffic to and from other carriers.

3.3.2.1.6 Tandem Switching shall accept connections (including the necessary signaling and trunking interconnections) between end offices, other tandems, IXCs, ICOs, CAPs and CLEC switches.

3.3.2.1.7 Tandem Switching shall provide local tandeming functionality between two end offices including two offices belonging to different CLEC's (e.g., between a CLEC end office and the end office of another CLEC).

3.3.2.1.8 Tandem Switching shall preserve CLASS/LASS features and Caller ID as traffic is processed.

3.3.2.1.9 Tandem Switching shall record billable events and send them to the area billing centers designated by Global Crossing. Tandem Switching will provide recording of all billable events as jointly agreed to by Global Crossing and BellSouth.

3.3.2.1.10 Upon a reasonable request from Global Crossing, BellSouth shall perform routine testing and fault isolation on the underlying switch that is providing Tandem Switching and all its interconnections. The results and reports of the testing shall be made immediately available to Global Crossing.

3.3.2.1.11 BellSouth shall maintain Global Crossing's trunks and interconnections associated with Tandem Switching at least at parity to its own trunks and interconnections.

3.3.2.1.12 BellSouth shall control congestion points and network abnormalities. All traffic will be restricted in a non-discriminatory manner.

3.3.2.1.13 Selective Call Routing through the use of line class codes is not available through the use of tandem switching. Selective Call Routing through the use of line class codes is an end office capability only. Detailed primary and overflow routing plans for all interfaces available within BellSouth's switching network shall be mutually agreed to by Global Crossing and BellSouth.

3.3.2.1.14 Tandem Switching shall process originating toll-free traffic received from Global Crossing's local switch.

3.3.2.1.15 In support of AIN triggers and features, Tandem Switching shall provide SSP capabilities when these capabilities are not available from the Local Switching Network Element, to the extent such Tandem Switch has such capability.

3.3.2.2 Interface Requirements

3.3.2.2.1 Tandem Switching shall provide interconnection to the E911 PSAP where the underlying Tandem is acting as the E911 Tandem.

3.3.2.2.2 Tandem Switching shall interconnect, with direct trunks, to all carriers with which BellSouth interconnects.

3.3.2.2.3 BellSouth shall provide all signaling necessary to provide Tandem Switching with no loss of feature functionality.

3.3.2.2.4 Tandem Switching shall interconnect with Global Crossing's switch, using two-way trunks, for traffic that is transiting via BellSouth's network to interLATA or intraLATA carriers. At Global Crossing's request, Tandem Switching shall record and keep records of traffic for billing.

3.3.2.2.5 Tandem Switching shall provide an alternate final routing pattern for Global Crossing's traffic overflowing from direct end office high usage trunk groups.

3.3.2.2.6 Tandem Switching shall be equal or better than the requirements for Tandem Switching set forth in the applicable technical references.

3.4 AIN Selective Carrier Routing for Operator Services, Directory Assistance and Repair Centers

3.4.1 BellSouth will provide AIN Selective Carrier Routing at the request of Global Crossing. AIN Selective Carrier Routing will provide Global Crossing with the capability of routing operator calls, 0+ and 0- and 0+ NPA (LNPA) 555-1212 directory assistance, 1+411 directory assistance and 611 repair center calls to pre-selected destinations.

3.4.2 Global Crossing shall order AIN Selective Carrier Routing through its Account Team. AIN Selective Carrier Routing must first be established regionally and then on a per central office, per state basis.

3.4.3 AIN Selective Carrier Routing is not available in DMS 10 switches.

3.4.4 Where AIN Selective Carrier Routing is utilized by Global Crossing, the routing of Global Crossing's end user calls shall be pursuant to information provided by Global Crossing and stored in BellSouth's AIN Selective Carrier Routing Service Control Point database. AIN Selective Carrier Routing shall utilize a set of Line Class Codes (LCCs) unique to a basic class of service assigned on an 'as needed basis. The same LCCs will be assigned in each central office where AIN Selective Carrier Routing is established.

3.4.5 Upon ordering of AIN Selective Carrier Routing Regional Service, Global Crossing shall remit to BellSouth the Regional Service Order non-recurring charges set forth in Exhibit A of this Attachment. There shall be a non-recurring End Office Establishment Charge per office due at the addition of each central office where AIN Selective Carrier Routing will be utilized. Said non-recurring charge shall be as set forth in Exhibit A of this Attachment. For each Global Crossing end user activated, there shall be a non-recurring End User Establishment charge as set forth in Exhibit A of this Attachment, payable to BellSouth pursuant to the terms of the General Terms and Conditions, incorporated herein by this reference. Global Crossing shall pay the AIN Selective Carrier Routing Per Query Charge set forth in Exhibit A of this Attachment.

3.4.6 This Regional Service Order non-recurring charge will be non-refundable and will be paid with 1/2 coming up-front with the submission of all fully completed required forms, including: Regional Selective Carrier Routing (SCR) Order Request-Form A, Central Office AIN Selective Carrier Routing (SCR) Order Request - Form B, AIN_SCR Central Office Identification Form - Form C, AIN_SCR Routing Options Selection Form - Form D, and Routing Combinations Table - Form E. BellSouth has 30 days to respond to the client's fully completed firm order as a Regional Service Order. With the delivery of this firm order response to the client, BellSouth considers that the delivery schedule of this service commences. The remaining 1/2 of the Regional Service Order payment must be paid when at least 90% of the Central Offices listed on the original order have been turned up for the service.

3.4.7 The non-recurring End Office Establishment Charge will be billed to the client following our normal monthly billing cycle for this type of order.

3.4.8 End-User Establishment Orders will not be turned-up until the 2nd payment is received for the Regional Service Order. The non-recurring End-User Establishment Charges will be billed to the client following our normal monthly billing cycle for this type of order.

3.4.9 Additionally, the AIN Selective Carrier Routing Per Query Charge will be billed to the client following the normal billing cycle for per query charges.

3.4.10 All other network components needed, for example, unbundled switching and unbundled local transport, etc, will be billed according per contracted rates.

3.5 Packet Switching Capability

3.5.1 Definition
Packet Switching Capability. The packet switching capability network element is defined as the basic packet switching function of routing or forwarding packets, frames, cells or other data units based on address or other routing information contained in the packets, frames, cells or other data units, and the functions that are performed by Digital Subscriber Line Access Mulitplexers, including but not limited to:

3.5.2 The ability to terminate copper customer loops (which includes both a low band voice channel and a high-band data channel, or solely a data channel);

3.5.3 The ability to forward the voice channels, if present, to a circuit switch or multiple circuit switches;

3.5.4 The ability to extract data units from the data channels on the loops, and

3.5.5 The ability to combine data units from multiple loops onto one or more trunks connecting to a packet switch or packet switches.

3.5.6 BellSouth shall be required to provide non-discriminatory access to unbundled packet switching capability only where each of the following conditions are satisfied:

3.5.6.1 BellSouth has deployed digital loop carrier systems, including but not limited to, integrated digital loop carrier or universal digital loop carrier systems; or has deployed any other system in which fiber optic facilities replace copper facilities in the distribution section (e.g., end office to remote terminal, pedestal or environmentally controlled vault);

3.5.6.2 There are no spare copper loops capable of supporting the xDSL services Global Crossing seeks to offer;

3.5.6.3 BellSouth has not permitted Global Crossing to deploy a Digital Subscriber Line Access Multiplexer at the remote terminal, pedestal or environmentally controlled vault or other interconnection point, nor has the Global Crossing obtained a virtual collocation arrangement at these subloop interconnection points as defined by 47 C.F.R. § 51.319 (b); and

3.5.6.4 BellSouth has deployed packet switching capability for its own use.

3.5.7 If there is a dispute as to whether BellSouth must provide Packet Switching , such dispute will be resolved according tot the dispute resolution process set forth in Section of the General Terms and Conditions of this Agreement, incorporated herein by this reference.

3.6 **Interoffice Transmission Facilities**

BellSouth shall provide nondiscriminatory access, in accordance with FCC Rule 51.311 and Section 251(c)(3) of the Act, to interoffice transmission facilities on an unbundled basis to Global Crossing for the provision of a telecommunications service.

3.7 **Rates**

The prices that Global Crossing shall pay to BellSouth for Network Elements and Other Services are set forth in Exhibit C to this Attachment.

3.8 **Operational Support Systems (OSS)**

BellSouth has developed and made available the following mechanized systems by which Global Crossing may submit LSRs electronically.

LENS	Local Exchange Navigation System
EDI	Electronic Data Interchange
TAG	Telecommunications Access Gateway

3.8.1 LSRs submitted by means of one of these interactive interfaces will incur an OSS electronic ordering charge as specified in the table below. An individual LSR will be identified for billing purposes by its Purchase Order Number (PON). LSRs submitted by means other than one of these interactive interfaces (mail, fax, courier, etc.) will incur a manual order charge as specified in the table below:

OPERATIONAL SUPPORT SYSTEMS	AL, GA, LA, MS, SC	FL, KY, NC, TN

OSS LSR charge, per LSR received from the CLEC by one of the OSS interactive interfaces	$3.50 SOMEC	$3.50 SOMEC
Incremental charge per LSR received from the CLEC by means other than one of the OSS interactive interfaces	See applicable rate element	$19.99 SOMAN

3.8.2 Denial/Restoral OSS Charge

In the event Global Crossing provides a list of customers to be denied and restored, rather than an LSR, each location on the list will require a separate PON and, therefore will be billed as one LSR per location.

3.8.3 Cancellation OSS Charge

Global Crossing will incur an OSS charge for an accepted LSR that is later canceled by Global Crossing.

Note: Supplements or clarifications to a previously billed LSR will not incur another OSS charge.

3.8.4 Network Elements and Other Services Manual Additive

3.8.4.1 The Commissions in some states have ordered per-element manual additive non-recurring charges (NRC) for Network Elements and Other Services ordered by means other than one of the interactive interfaces. These ordered Network Elements and Other Services manual additive NRCs will apply in these states, rather than the charge per LSR. The per-element charges are listed on the Rate Tables in Exhibit A.

4. Enhanced Extended Link (EEL)

4.1 Where facilities permit and where necessary to comply with an effective FCC and/or State Commission order, BellSouth shall offer access to the Enhanced Extended Link ("EEL") as defined in Section 4.3 below.

4.2 Definition

4.2.1 For purposes of this Amendment, references to "Currently Combined" network elements shall mean that such network elements are in fact already combined by BellSouth in the BellSouth network to provide service to a particular end user at a particular location.

4.2.2 BellSouth will provide access to the Enhanced Extended Link ("EEL") in the combinations set forth in 4.3 following. This offering is intended to provide connectivity from an end user's location through that end user's SWC and then connected to the Global Crossing's POP serving wire center. The circuit must be connected to the Global Crossing's circuit switch for the purpose of provisioning circuit switched telephone exchange service to the Global Crossing's end-user customers. This can be done either in the collocation space at the POP SWC, or by using BellSouth's access facilities between the Global Crossing's POP and Global Crossing's collocation space at the POP SWC.

4.2.3 BellSouth shall provide combinations of loops and transport to Global Crossing in Georgia regardless of whether or not such combinations of loops and transport are Currently Combined. Other combinations of network elements that are not Currently Combined but that BellSouth ordinarily combines in its network shall be made available to Global Crossing in Georgia in accordance with Section 4.5.1.3 below. In all other states, BellSouth shall make available to Global Crossing those EEL combinations and transport described in Section 4.3 below only to the extent such combinations of loop and transport network elements are Currently Combined. BellSouth will make available new combinations of loops and transport network elements in density Zone 1, as defined in 47 C.F.R. 69.123 as of January 1, 1999, of the Miami, Orlando, Fort Lauderdale, Charlotte, New Orleans, Greensboro and Nashville MSAs to Global Crossing if Global Crossing's customer has four (4) or more DS0 equivalent lines. Except as stated above, other combinations of network elements will be provided to Global Crossing only to the extent such network elements are Currently Combined.

4.2.4 Additionally, there may be instances wherein Global Crossing will require multiplexing functionality. BellSouth will provide access to multiplexing within the

central office pursuant to the terms, conditions and rates set forth in its Access Services Tariffs when the customer utilizes special access interoffice facilities. Multiplexing will be provided pursuant to the interconnection agreement when unbundled network elements are used for interoffice transport.

4.3 EEL Combinations

4.3.1 - 2-wire voice grade extended loop with DS1 Dedicated Interoffice Transport;

4.3.2 - 4-wire voice grade extended loop with DS1 Dedicated Interoffice Transport;

4.3.3 - 4-wire 56 or 64 kbps extended digital loop with Dedicated DS1 Interoffice Transport;

4.3.4 - Extended 2-wire VG Dedicated Local Channel with Dedicated DS1 Interoffice Transport;

4.3.5 - Extended 4-wire VG Dedicated Local Channel with Dedicated DS1 Interoffice Transport;

4.3.6 - Extended 4-wire DS1 Digital Loop with Dedicated DS1 Interoffice Transport;

4.3.7 - Extended 4-wire DS1 Digital Loop with Dedicated DS3 Interoffice Transport; and

4.3.8 - Extended DS1 Dedicated Local Channel with Dedicated DS3 Interoffice Transport.

4.4 Special Access Service Conversions

4.4.1 Global Crossing may not convert special access services to combinations of loop and transport network elements, whether or not Global Crossing self-provides its entrance facilities (or obtains entrance facilities from a third party), unless Global Crossing uses the combination to provide a significant amount of local exchange service, in addition to exchange access service, to a particular customer. To the extent Global Crossing converts its special access services to combinations of loop and transport network elements at UNE prices, Global Crossing, hereby, certifies that it is providing a significant amount of local exchange service over such combinations. BellSouth may at its sole discretion audit Global Crossing records in order to verify the type of traffic being transmitted over combinations of loop and transport network elements. If, based on its audits, BellSouth concludes that Global Crossing is not providing a significant amount of local exchange traffic over the combinations of loop and transport network elements, BellSouth may file a complaint with the appropriate Commission, pursuant to the dispute resolution process as set forth in the Interconnection Agreement. In the event that BellSouth prevails, BellSouth may convert such combinations of loop and transport network elements to special access services and may seek appropriate retroactive reimbursement from Global Crossing.

Associate Work Request Form

Request ID: *226*

Requestor Name:	**Kay Williams**	**Accepted By:**	**Unknown**
Status:	**Unassigned**	**Date Accepted:**	
Date / Time Submitted:	Friday, April 28, 2000	**Completed By Name:**	**Unknown**
Date / Time Needed:	Friday, April 28, 2000	**Date / Time Completed:**	
Requested Staff Name:	Calvin Walker	***(Return Feedback To Brenda Wrixon)***	

Topic Global

Work Requested:

Please make 1 copy for me and file original

Feedback:

4.4.2 EEL combinations for DS1 level and above will be available only when Global Crossing provides and handles at least one third of the end user's local traffic over the facility provided. In addition, on the DS1 loop portion of the combination, at least fifty (50) percent of the activated channels must have at least five (5) percent local voice traffic individually and, for the entire DS1 facility, at least ten (10) percent of the traffic must be local voice traffic.

4.4.3 When combinations of loop and transport network elements include multiplexing, each of the individual DS1 circuits must meet the above criteria.

4.5 Rates

4.5.1 Georgia

4.5.1.1 The non-recurring and recurring rates for the EEL Combinations of network elements set forth in 4.3, whether Currently Combined or new, are as set forth in Exhibit A of this Amendment.

4.5.1.2 On an interim basis, for combinations of loop and transport network facilities not set forth in Section 4.3, where the elements are not Currently Combined but are ordinarily combined in BellSouth's network, the non-recurring and recurring charges for such UNE combinations shall be the sum of the stand-alone non-recurring and recurring charges of the network elements which make up the combination. These interim rates shall be subject to true-up based on the Commission's review of BellSouth's cost studies.

4.5.1.3 To the extent that Global Crossing seeks to obtain other combinations of loop and transport network elements that BellSouth ordinarily combines in its network which have not been specifically priced by the Commission when purchased in combined form, Global Crossing, at its option, can request that such rates be determined pursuant to the Bona Fide Request/New Business Request (NBR) process set forth in the Agreement.

4.5.2 All Other States

4.5.2.1 Subject to Section 4.2.3 preceding, for all other states, the non-recurring and recurring rates for the Currently Combined EEL combinations set forth in Section 1.3 and other Currently Combined loop and transport network elements will be the sum of the non-recurring and recurring rates for the individual network elements unless otherwise negotiated by the parties.

5. Port/Loop Combinations

5.1 At Global Crossing's request, BellSouth shall provide access to combinations of port and loop network elements, as set forth in Section 1.4 below, that are currently combined in BellSouth's network except as specified in Sections 5.1.1 and 5.1.2 below.

5.1.1 BellSouth is not required to provide access to combinations of port and loop network elements in locations where BellSouth is not required to provide circuit switching.

5.1.2 BellSouth is not required to provide circuit switching in density Zone 1, as defined in 47 C.F.R. 69.123 as of January 1, 1999, of the Atlanta, Miami, Orlando, Fort Lauderdale, Charlotte, New Orleans, Greensboro and Nashville MSAs to Global Crossing if Global Crossing's customer has 4 or more DS0 equivalent lines.

5.2 Definition

5.2.1 For purposes of this Amendment, references to Currently Combined network elements shall mean that such network elements are in fact already combined in the BellSouth network to provide service to a particular end user at a particular location.

5.2.2 Combinations of port and loop network elements provide local exchange service for the origination or termination of calls. Section 5.4 following provides the combinations of port and loop network elements that may be ordered by Global Crossing when currently combined except in those locations where BellSouth is not required to provide circuit switching, as set forth in Section 5.1.2 above.

5.2.3 In Georgia, BellSouth shall provide combinations of port and loop network elements to Global Crossing regardless of whether or not such combinations are Currently Combined except in those locations where BellSouth is not required to provide circuit switching, as set forth in Section 5.1.2 above.

5.3 Rates for Combinations of Loop and Port Network Elements

5.3.1 Rates for combinations of loop and port network elements, as set forth in Section 5.4, are provided in Exhibit A of this Attachment

5.3.2 Rates for Circuit Switching

5.3.2.1 Rates for circuit switching, where BellSouth is not required, pursuant to Section 5.1, to provide circuit switching are as set forth in Exhibit A of this Attachment.

5.4 Combination Offerings

5.4.1 2-wire voice grade port, voice grade loop, virtual cross connect, unbundled end office switching, unbundled end office trunk port, common transport per mile per MOU, common transport facilities termination, tandem switching, and tandem trunk port.

5.4.2 2-wire voice grade DID port, voice grade loop, virtual cross connect, unbundled end office switching, unbundled end office trunk port, common transport per mile per MOU, common transport facilities termination, tandem switching, and tandem trunk port.

5.4.3 2-wire CENTREX port, voice grade loop virtual cross connect, unbundled end office switching, unbundled end office trunk port, common transport per mile per MOU, common transport facilities termination, tandem switching, and tandem trunk port.

5.4.4. 2-wire ISDN Basic Rate Interface, voice grade loop virtual cross connect, unbundled end office switching, unbundled end office trunk port, common transport per mile per MOU, common transport facilities termination, tandem switching, and tandem trunk port.

5.4.5 2-wire ISDN Primary Rate Interface, DS1 loop virtual cross connect, unbundled end office switching, unbundled end office trunk port, common transport per mile per MOU, common transport facilities termination, tandem switching, and tandem trunk port.

5.4.6 4-wire DS1 Trunk port, DS1 Loop virtual cross connect, unbundled end office switching, unbundled end office trunk port, common transport per mile per MOU, common transport facilities termination, tandem switching, and tandem trunk port.

6. Transport and Dark Fiber

All of the negotiated rates, terms and conditions set forth in this Section pertain to the provision of unbundled transport and dark fiber.

6.1. Transport

6.1.1 Definition of Common (Shared) Transport

Common (Shared) Transport is an interoffice transmission path between two BellSouth end-offices, BellSouth end-office and a local tandem, or between two local tandems. Where BellSouth Network Elements are connected by intra-office wiring, such wiring is provided as a part of the Network Elements and is not Common (Shared) Transport. Common (Shared) Transport consists of BellSouth inter-office transport facilities and is unbundled from local switching.

6.1.2 Technical Requirements of Common (Shared) Transport

6.1.2.1 Common (Shared) Transport provided on DS1 or VT1.5 circuits, shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for Central Office to Central Office ("CO to CO") connections in the appropriate industry standards.

6.1.2.2 Common (Shared) Transport provided on DS3 circuits, STS-1 circuits, and higher transmission bit rate circuits, shall, at a minimum, meet the performance, availability,

jitter, and delay requirements specified for CO to CO connections in the appropriate industry standards.

6.1.2.3 BellSouth shall be responsible for the engineering, provisioning, and maintenance of the underlying equipment and facilities that are used to provide Common (Shared) Transport.

6.1.2.4 At a minimum, Common (Shared) Transport shall meet all of the requirements set forth in the applicable industry standard technical references.

6.2 Interoffice transmission facility network elements include:

6.2.1 Dedicated transport, defined as BellSouth's transmission facilities, including all technically feasible capacity-related services including, but not limited to, DS1, DS3 and OCn levels, dedicated to a particular customer or carrier, that provide telecommunications between wire centers or switches owned by BellSouth, or between wire centers and switches owned by BellSouth and Global Crossing.

6.2.2 Dark Fiber transport, defined as BellSouth's optical transmission facilities without attached multiplexing, aggregation or other electronics;

6.2.3 Shared transport, defined as transmission facilities shared by more than one carrier, including BellSouth, between end office switches, between end office switches and tandem switches, and between tandem switches, in BellSouth's network.

6.2.4 BellSouth shall:

6.2.4.1 Provide Global Crossing exclusive use of interoffice transmission facilities dedicated to a particular customer or carrier, or shared use of the features, functions, and capabilities of interoffice transmission facilities shared by more than one customer or carrier;

6.2.4.2 Provide all technically feasible transmission facilities, features, functions, and capabilities that Global Crossing could use to provide telecommunications services;

6.2.4.3 Permit, to the extent technically feasible, Global Crossing to connect such interoffice facilities to equipment designated by Global Crossing, including but not limited to, Global Crossing's collocated facilities; and

6.2.4.4 Permit, to the extent technically feasible, Global Crossing to obtain the functionality provided by BellSouth's digital cross-connect systems in the same manner that BellSouth provides such functionality to interexchange carriers.

6.2.5 Provided that the facility is used to transport a significant amount of local exchange services Global Crossing shall be entitled to convert existing interoffice transmission

facilities (i.e., special access) to the corresponding interoffice transport network element option.

6.3 Dedicated Transport

6.3.1 Definitions

6.3.2 Dedicated Transport is defined as BellSouth transmission facilities dedicated to a particular customer or carrier that provide telecommunications between wire centers owned by BellSouth or requesting telecommunications carriers, or between switches owned by BellSouth or requesting telecommunications carriers.

6.3.3 Unbundled Local Channel

6.3.4 Unbundled Local Channel is the dedicated transmission path between Global Crossing's Point of Presence and the BellSouth Serving Wire Center's collocation.

6.3.5 Unbundled Interoffice Channel.

6.3.6 Unbundled Interoffice Channel is the dedicated transmission path that provides telecommunication between BellSouth's Serving Wire Centers' collocations.

6.3.7 BellSouth shall offer Dedicated Transport in each of the following ways:

6.3.7.1 As capacity on a shared UNE facility.

6.3.7.2 As a circuit (e.g., DS0, DS1, DS3) dedicated to Global Crossing. This circuit shall consist of an Unbundled Local Channel or an Unbundled Interoffice Channel or both.

6.3.8 When Dedicated Transport is provided it shall include:

6.3.8.1 Transmission equipment such as, line terminating equipment, amplifiers, and regenerators;

6.3.8.2 Inter-office transmission facilities such as optical fiber, copper twisted pair, and coaxial cable.

6.3.9 Rates for Dedicated Transport are listed in this Attachment. For those states that do not contain rates in this Attachment the rates in the applicable State Access Tariff will apply as interim rates. When final rates are developed, these interim rates will be subject to true up, and the Parties will amend the Agreement to reflect the new rates.

6.3.10 Technical Requirements

6.3.10.1 This Section sets forth technical requirements for all Dedicated Transport.

6.3.10.2 When BellSouth provides Dedicated Transport, the entire designated transmission service (e.g., DS0, DS1, DS3) shall be dedicated to Global Crossing designated traffic.

6.3.10.3 BellSouth shall offer Dedicated Transport in all technologies that become available including, but not limited to, (1) DS0, DS1 and DS3 transport services, and (2) SONET at available transmission bit rates.

6.3.10.4 For DS1 or VT1.5 circuits, Dedicated Transport shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for Customer Interface to Central Office ("CI to CO") connections in the appropriate industry standards.

6.3.10.5 Where applicable, for DS3, Dedicated Transport shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for CI to CO connections in the appropriate industry standards.

6.3.10.6 BellSouth shall offer the following interface transmission rates for Dedicated Transport:

6.3.10.6.1 DS0 Equivalent;

6.3.10.6.2 DS1 (Extended SuperFrame - ESF);

6.3.10.6.3 DS3 (signal must be framed);

6.3.10.6.4 SDH (Synchronous Digital Hierarchy) Standard interface rates in accordance with International Telecommunications Union (ITU) Recommendation G.707 and Plesiochronous Digital Hierarchy (PDH) rates per ITU Recommendation G.704.

6.3.10.6.5 When Dedicated Transport is provided, BellSouth shall design it according to BellSouth's network infrastructure to allow for the termination points specified by Global Crossing.

6.3.11 At a minimum, Dedicated Transport shall meet each of the requirements set forth in the applicable industry technical references.

6.3.11.1 BellSouth Technical References:

6.3.11.2 TR-TSY-000191 Alarm Indication Signals Requirements and Objectives, Issue 1, May 1986.

6.3.11.3 TR 73501 LightGate®Service Interface and Performance Specifications, Issue D, June 1995.

6.3.11.4 TR 73525 MegaLink®Service, MegaLink Channel Service & MegaLink Plus Service Interface and Performance Specifications, Issue C, May 1996.

6.4 Unbundled Channelization

6.4.1 BellSouth agrees to offer access to Unbundled Channelization when available pursuant to following terms and conditions and at the rates set forth in the Attachment.

6.4.2 Definition

6.4.2.1 Unbundled Channelization (UC) provides the multiplexing capability that will allow a DS1 (1.544 Mbps) or DS3 (44.736 Mbps) or STS-1 Unbundled Network Element (UNE) or collocation cross-connect to be multiplexed or channelized at a BellSouth central office. This can be accomplished through the use of a stand-alone multiplexer or a digital cross-connect system at the discretion of BellSouth. Once UC has been installed, Global Crossing can have channels activated on an as-needed basis by having BellSouth connect lower level UNEs via Central Office Channel Interfaces (COCIs).

6.4.3 Channelization capabilities will be as follows:

6.4.3.1 DS3 Channelization System: An element that channelizes a DS3 signal into 28 DS1s/STS-1s.

6.4.3.2 DS1 Channelization System: An element that channelizes a DS1 signal into 24 DS0s.

6.4.3.3 Central Office Channel Interfaces (COCI): Elements that can be activated on a channelization system.

6.4.4 DS1 Central Office Channel Interface elements can be activated on a DS3 Channelization System.

6.4.5 Voice Grade and Digital Data Central Office Channel Interfaces can be activated on a DS1 Channelization System.

6.4.6 AMI and B8ZS line coding with either Super Frame (SF) and Extended Super Frame (ESF) framing formats will be supported as options.

6.4.7 COCI will be billed on the lower level UNE order that is interfacing with the UC arrangement and will have to be compatible with those UNEs.

6.4.8 Channelization may be incorporated within dedicated transport or ordered as a stand-alone capability, which requires either the high or low speed side to be connected to collocation.

6.4.9 Technical Requirements

6.4.9.1 In order to assure proper operation with BST provided central office multiplexing functionality, the customer's channelization equipment must adhere strictly to form and protocol standards. Separate standards exist for the multiplex channel bank, for voice frequency encoding, for various signaling schemes, and for subrate digital access.

6.4.9.2 DS0 to DS1 Channelization

6.4.9.2.1 The DS1 signal must be framed utilizing the framing structure defined in ANSI T1.107, *Digital Hierarchy Formats Specifications* and ANSI T1.403.02, *DS1 Robbed-bit Signaling State Definitions*. DS0 to DS1 Channelization requirements are essential the same as defined in BellSouth Technical Reference 73525, *MegaLink® Service, MegaLink® Channel Service, MegaLink® Plus Service, and MegaLink® Light Service Interface and Performance Specification.*

6.4.9.3 DS1 to DS3 Channelization

6.4.9.3.1 The DS3 signal must be framed utilizing the framing structure define in ANSI T1.107, *Digital Hierarchy Formats Specifications*. DS1 to DS3 Channelization requirements are essentially the same as defined in BellSouth Technical Reference 73501, *LightGate® Service Interface and Performance Specifications*. The asynchronous M13 multiplex format (combination of M12 and M23 formats) is specified for terminal equipment that multiplexes 28 DS1s into a DS3.

6.4.9.4 DS1 to STS Channelization

6.4.9.4.1 The STS-1 signal must be framed utilizing the framing structure define in ANSI T1.105, *Synchronous Optical Network (SONET) – Basic Description Including Multiplex Structure, Rates and Formats* and T1.105.02, *Synchronous Optical Network (SONET) – Payload Mappings*. DS1 to STS Channelization requirements are essentially the same as defined in BellSouth Technical Reference TR 73501, *LightGate® Service Interface and Performance Specifications*

6.5 Dark Fiber

6.5.1 Definition

6.5.2 Dark Fiber is optical transmission facilities without attached multiplexing, aggregation or other electronics that connects two points within BellSouth's network.

Dark Fiber also includes strands of optical fiber existing in aerial or underground cable which may have lightwave repeater (regenerator or optical amplifier) equipment interspliced to it at appropriate distances, but which has no line terminating elements terminated to such strands to operationalize its transmission capabilities.6.4.2 Dark Fiber is unused strands of optical fiber. It may be strands of optical fiber existing in aerial or underground structure. No line terminating elements terminated to such strands to operationalize its transmission capabilities will be available. No regeneration or optical amplification will be included with this element.

6.5.3 Requirements

6.5.3.1 BellSouth shall make available Dark Fiber where it exists in BellSouth's network and where, as a result of future building or deployment, it becomes available. If BellSouth has plans to use the fiber within a two-year period, there is no requirement to provide said fiber to Global Crossing.

6.5.3.2 If the requested dark fiber has any lightwave repeater equipment interspliced to it, BellSouth will remove such equipment at Global Crossing's request subject to time and materials charges.

6.5.3.3 Global Crossing may test the quality of the Dark Fiber to confirm its usability and performance specifications.

6.5.3.4 BellSouth shall use its best efforts to provide to Global Crossing information regarding the location, availability and performance of Dark Fiber within ten (10) business days for a records based answer and twenty (20) business days for a field based answer, after receiving a request from Global Crossing ("Request"). Within such time period, BellSouth shall send written confirmation of availability of the Dark Fiber ("Confirmation"). From the time of the Request to forty-five (45) days after Confirmation, BellSouth shall hold such requested Dark Fiber for Global Crossing's use an may not allow any other party to use such media, including BellSouth.

6.5.3.5 BellSouth shall use its best efforts to make Dark Fiber available to Global Crossing within thirty (30) business days after it receives written confirmation from Global Crossing that the Dark Fiber previously deemed available by BellSouth is wanted for use by Global Crossing. This includes identification of appropriate connection points (e.g., Light Guide Interconnection (LGX) or splice points) to enable Global Crossing to connect or splice Global Crossing provided transmission media (e.g., optical fiber) or equipment to the Dark Fiber.

6.5.3.6 Dark Fiber shall meet the manufacturer's design specifications.

6.5.3.7 Global Crossing may splice and test Dark Fiber obtained from BellSouth using Global Crossing or Global Crossing designated personnel. BellSouth shall provide

appropriate interfaces to allow splicing and testing of Dark Fiber. BellSouth shall provide an excess cable length of 25 feet minimum (for fiber in underground conduit) to allow the uncoiled fiber to reach from the manhole to a splicing van.

6.6 Rates

6.6.1 The prices that Global Crossing shall pay to BellSouth for Network Elements and Other Services are set forth in Exhibit C to this Attachment.

6.7 Operational Support Systems (OSS)

6.7.1 BellSouth has developed and made available the following mechanized systems by which Global Crossing may submit LSRs electronically.

LENS	Local Exchange Navigation System
EDI	Electronic Data Interchange
TAG	Telecommunications Access Gateway

6.7.2 LSRs submitted by means of one of these interactive interfaces will incur an OSS electronic ordering charge as specified in the table below. An individual LSR will be identified for billing purposes by its Purchase Order Number (PON). LSRs submitted by means other than one of these interactive interfaces (mail, fax, courier, etc.) will incur a manual order charge as specified in the table below:

OPERATIONAL SUPPORT SYSTEMS	AL, GA, LA, MS, SC	FL, KY, NC, TN
OSS LSR charge, per LSR received from the CLEC by one of the OSS interactive interfaces	$3.50 SOMEC	$3.50 SOMEC
Incremental charge per LSR received from the CLEC by means other than one of the OSS interactive interfaces	See applicable rate element	$19.99 SOMAN

6.7.3 Denial/Restoral OSS Charge

6.7.3.1 In the event Global Crossing provides a list of customers to be denied and restored, rather than an LSR, each location on the list will require a separate PON and, therefore will be billed as one LSR per location.

6.7.4 Cancellation OSS Charge

6.7.4.1 Global Crossing will incur an OSS charge for an accepted LSR that is later canceled by Global Crossing.

Note: Supplements or clarifications to a previously billed LSR will not incur another OSS charge.

6.7.5 Network Elements and Other Services Manual Additive

6.7.5.1 The Commissions in some states have ordered per-element manual additive non-recurring charges (NRC) for Network Elements and Other Services ordered by means other than one of the interactive interfaces. These ordered Network Elements and Other Services manual additive NRCs will apply in these states, rather than the charge per LSR. The per-element charges are listed on the Rate Tables in Exhibit A.

7. BellSouth SWA 8XX Toll Free Dialing Ten Digit Screening Service

All of the negotiated rates, terms and conditions set forth in this Section pertain to the provision of 8XX Access Ten Digit Screening Services.

7.1 BellSouth SWA 8XX Toll Free Dialing Ten Digit Screening Service database

7.1.1 The BellSouth SWA 8XX Toll Free Dialing Ten Digit Screening Service database (herein known as 8XX SCP) is a SCP that contains customer record information and functionality to provide call-handling instructions for 8XX calls. The 8XX SCP IN software stores data downloaded from the national SMS and provides the routing instructions in response to queries from the SSP or tandem. The BellSouth SWA 8XX Toll Free Dialing Ten Digit Screening Service (herein know as 8XX TFD), utilizes the 8XX SCP to provide identification and routing of the 8XX calls, based on the ten digits dialed. 8XX TFD is provided with or without POTS number delivery, dialing number delivery, and other optional complex features as selected by Global Crossing. BellSouth shall provide 8XX TFD in accordance with the following:

7.1.2 Technical Requirements

7.1.2.1 BellSouth shall provide Global Crossing with access to the 8XX record information located in the 8XX SCP. The 8XX SCP contains current records as received from the national SMS and will provide for routing 8XX originating calls based on the dialed ten digit 8XX number.

7.1.2.2 The 8XX SCP is designated to receive and respond to queries using the American National Standard Specification of Signaling System Seven (SS7) protocol. The 8XX SCP shall determine the carrier identification based on all ten digits of the dialed number and route calls to the carrier, POTS number, dialing number and/or other optional feature selected by Global Crossing.

7.1.2.3 The SCP shall also provide, at Global Crossing's option, such additional feature as described in SR-TSV-002275 (BOC Notes on BellSouth Networks, SR-TSV-002275, Issue 2, (Telcordia (formerly BellCore), April 1994)) as are available to BellSouth. These may include but are not limited to:

7.1.2.3.1 Network Management;

7.1.2.3.2 Customer Sample Collection; and

7.1.2.3.3 Service Maintenance.

7.2 Automatic Location Identification/Data Management System (ALI/DMS)

7.2.1 The ALI/DMS Database contains end user information (including name, address, telephone information, and sometimes special information from the local service provider or end user) used to determine to which Public Safety Answering Point (PSAP) to route the call. The ALI/DMS database is used to provide more routing flexibility for E911 calls than Basic 911. BellSouth shall provide the Emergency Services Database in accordance with the following:

7.3 Rates

The prices that Global Crossing shall pay to BellSouth for Network Elements and Other Services are set forth in Exhibit C to this Attachment.

8 Line Information Database (LIDB)

8.1 All of the negotiated rates, terms and conditions set forth in this Section pertain to the provision of LIDB.

8.2 BellSouth will store in its LIDB only records relating to service in the BellSouth region. The LIDB Storage Agreement is included in this Attachment.

8.2.1 Definition

8.2.2 The Line Information Database (LIDB) is a transaction-oriented database accessible through Common Channel Signaling (CCS) networks. It contains records associated with end user Line Numbers and Special Billing Numbers. LIDB accepts queries from other Network Elements and provides appropriate responses. The query originator need not be the owner of LIDB data. LIDB queries include functions such as screening billed numbers that provides the ability to accept Collect or Third Number Billing calls and validation of Telephone Line Number based non-proprietary calling cards. The interface for the LIDB functionality is the interface between BellSouth's CCS network and other CCS networks. LIDB also interfaces to administrative systems.

8.2.3 Technical Requirements

8.2.4 BellSouth will offer to Global Crossing any additional capabilities that are developed for LIDB during the life of this Agreement.

8.2.4.1 BellSouth shall process Global Crossing's Customer records in LIDB at least at parity with BellSouth customer records, with respect to other LIDB functions. BellSouth shall indicate to Global Crossing what additional functions (if any) are performed by LIDB in the BellSouth network.

8.2.4.2 Within two (2) weeks after a request by Global Crossing, BellSouth shall provide Global Crossing with a list of the customer data items, which Global Crossing would have to provide in order to support each required LIDB function. The list shall indicate which data items are essential to LIDB function, and which are required only to support certain services. For each data item, the list shall show the data formats, the acceptable values of the data item and the meaning of those values.

8.2.4.3 BellSouth shall provide LIDB systems for which operating deficiencies that would result in calls being blocked shall not exceed 30 minutes per year.

8.2.4.4 BellSouth shall provide LIDB systems for which operating deficiencies that would not result in calls being blocked shall not exceed 12 hours per year.

8.2.4.5 BellSouth shall provide LIDB systems for which the LIDB function shall be in overload no more than 12 hours per year.

8.2.4.6 All additions, updates and deletions of Global Crossing data to the LIDB shall be solely at the direction of Global Crossing. Such direction from Global Crossing will not be required where the addition, update or deletion is necessary to perform standard fraud control measures (e.g., calling card auto-deactivation).

8.2.4.7 BellSouth shall provide priority updates to LIDB for Global Crossing data upon Global Crossing's request (e.g., to support fraud detection), via password-protected telephone card, facsimile, or electronic mail within one hour of notice from the established BellSouth contact.

8.2.4.8 BellSouth shall provide LIDB systems such that no more than 0.01% of Global Crossing customer records will be missing from LIDB, as measured by Global Crossing audits. BellSouth will audit Global Crossing records in LIDB against DBAS to identify record mismatches and provide this data to a designated Global Crossing contact person to resolve the status of the records and BellSouth will update system appropriately. BellSouth will refer record of mis-matches to Global Crossing within one business day of audit. Once reconciled records are received back from Global Crossing, BellSouth will update LIDB the same business day if less than 500 records are received before 1:00PM Central Time. If more than 500 records are received, BellSouth will contact Global Crossing to negotiate a time frame for the updates, not to exceed three business days.

8.2.4.9 BellSouth shall perform backup and recovery of all of Global Crossing's data in LIDB including sending to LIDB all changes made since the date of the most recent backup copy, in at least the same time frame BellSouth performs backup and recovery of BellSouth data in LIDB for itself. Currently, BellSouth performs backups of the LIDB for itself on a weekly basis and when a new software release is scheduled, a backup is performed prior to loading the new release.

8.2.4.10 BellSouth shall provide Global Crossing with LIDB reports of data, which are missing or contain errors, as well as any misrouted errors, within a reasonable time period as negotiated between Global Crossing and BellSouth.

8.2.4.11 BellSouth shall prevent any access to or use of Global Crossing data in LIDB by BellSouth personnel that are outside of established administrative and fraud control personnel, or by any other Party that is not authorized by Global Crossing in writing.

8.2.4.12 BellSouth shall provide Global Crossing performance of the LIDB Data Screening function, which allows a LIDB to completely or partially deny specific query originators access to LIDB data owned by specific data owners, for Customer Data that is part of an NPA-NXX or RAO-0/1XX wholly or partially owned by Global

Crossing at least at parity with BellSouth Customer Data. BellSouth shall obtain from Global Crossing the screening information associated with LIDB Data Screening of Global Crossing data in accordance with this requirement. BellSouth currently does not have LIDB Data Screening capabilities. When such capability is available, BellSouth shall offer it to Global Crossing under the Bona Fide Request/New Business Process as set forth in General Terms and Conditions.

8.2.4.13 BellSouth shall accept queries to LIDB associated with Global Crossing customer records, and shall return responses in accordance with industry standards.

8.2.4.14 BellSouth shall provide mean processing time at the LIDB within 0.50 seconds under normal conditions as defined in industry standards.

8.2.4.15 BellSouth shall provide processing time at the LIDB within 1 second for 99% of all messages under normal conditions as defined in industry standards.

8.2.5 Interface Requirements

8.2.6 BellSouth shall offer LIDB in accordance with the requirements of this subsection.

8.2.6.1 The interface to LIDB shall be in accordance with the technical references contained within.

8.2.6.2 The CCS interface to LIDB shall be the standard interface described herein.

8.2.6.3 The LIDB Data Base interpretation of the ANSI-TCAP messages shall comply with the technical reference herein. Global Title Translation shall be maintained in the signaling network in order to support signaling network routing to the LIDB.

8.3 Rates

The prices that Global Crossing shall pay to BellSouth for Network Elements and Other Services are set forth in Exhibit C to this Attachment.

9 Signaling

9.1 All of the negotiated rates, terms and conditions set forth in this Section pertain to the provision of Signaling Transport Services.

9.2 BellSouth agrees to offer access to signaling and access to BellSouth's signaling databases subject to compatibility testing and at the rates set forth in this Attachment. BellSouth may provide mediated access to BellSouth signaling systems and databases. Available signaling elements include signaling links, signal transfer points and service control points. Signaling functionality will be available with both A-link and B-link connectivity.

9.3 Signaling Link Transport

9.3.1 Definition Signaling Link Transport is a set of two or four dedicated 56 Kbps. transmission paths between CLEC-designated Signaling Points of Interconnection (SPOI) that provides appropriate physical diversity.

9.3.2 Technical Requirements

9.3.2.1 Signaling Link Transport shall consist of full duplex mode 56 kbps transmission paths.

9.3.3 Of the various options available, Signaling Link Transport shall perform in the following two ways:

9.3.3.1 As an "A-link" which is a connection between a switch or SCP and a home Signaling Transfer Point Switch (STP) pair; and

9.3.3.2 As a "B-link" which is a connection between two STP pairs in different company networks (e.g., between two STP pairs for two Competitive Local Exchange Carriers (CLECs)).

9.3.4 Signaling Link Transport shall consist of two or more signaling link layers as follows:

9.3.4.1 An A-link layer shall consist of two links.

9.3.4.2 A B-link layer shall consist of four links.

9.3.5 A signaling link layer shall satisfy a performance objective such that:

9.3.5.1 There shall be no more than two minutes down time per year for an A-link layer; and

9.3.5.2 There shall be negligible (less than 2 seconds) down time per year for a B-link layer.

9.3.5.3 A signaling link layer shall satisfy interoffice and intraoffice diversity of facilities and equipment, such that:

9.3.5.3.1 No single failure of facilities or equipment causes the failure of both links in an A-link layer (i.e., the links should be provided on a minimum of two separate physical paths end-to-end); and

9.3.5.3.2 No two concurrent failures of facilities or equipment shall cause the failure of all four links in a B-link layer (i.e., the links should be provided on a minimum of three separate physical paths end-to-end).

9.3.5.4 Interface Requirements

9.3.5.4.1 There shall be a DS1 (1.544 Mbps) interface at the Global Crossing designated SPOIs. Each 56 kbps transmission path shall appear as a DS0 channel within the DS1 interface.

9.4 Signaling Transfer Points (STPs)

9.4.1 Definition - Signaling Transfer Points is a signaling network function that includes all of the capabilities provided by the signaling transfer point switches (STPs) and their associated signaling links which enable the exchange of SS7 messages among and between switching elements, database elements and signaling transfer point switches.

9.4.2 Technical Requirements

9.4.2.1 STPs shall provide access to Network Elements connected to BellSouth SS7 network. These include:

9.4.2.1.1 BellSouth Local Switching or Tandem Switching;

9.4.2.1.2 BellSouth Service Control Points/DataBases;

9.4.2.1.3 Third-party local or tandem switching;

9.4.2.1.4 Third-party-provided STPs.

9.4.2.2 The connectivity provided by STPs shall fully support the functions of all other Network Elements connected to the BellSouth SS7 network. This explicitly includes the use of the BellSouth SS7 network to convey messages which neither originate nor terminate at a signaling end point directly connected to the BellSouth SS7 network (i.e., transient messages). When the BellSouth SS7 network is used to convey transient messages, there shall be no alteration of the Integrated Services Digital

Network User Part (ISDNUP) or Transaction Capabilities Application Part (TCAP) user data that constitutes the content of the message.

9.4.2.3 If a BellSouth tandem switch routes calling traffic, based on dialed or translated digits, on SS7 trunks between an Global Crossing local switch and third party local switch, the BellSouth SS7 network shall convey the TCAP messages that are necessary to provide Call Management features (Automatic Callback, Automatic Recall, and Screening List Editing) between Global Crossing local STPs and the STPs that provide connectivity with the third party local switch, even if the third party local switch is not directly connected to BellSouth STPs.

9.4.2.4 STPs shall provide all functions of the MTP as defined in the applicable industry standard technical references.

9.4.2.5 STPs shall provide all functions of the SCCP necessary for Class 0 (basic connectionless) service, as defined in Telcordia (formerly BellCore) ANSI Interconnection Requirements. In particular, this includes Global Title Translation (GTT) and SCCP Management procedures, as specified in T1.112.4. In cases where the destination signaling point is a Global Crossing or third party local or tandem switching system directly connected to BellSouth SS7 network, BellSouth shall perform final GTT of messages to the destination and SCCP Subsystem Management of the destination. In all other cases, BellSouth shall perform intermediate GTT of messages to a gateway pair of STPs in an SS7 network connected with BellSouth SS7 network, and shall not perform SCCP Subsystem Management of the destination. If BellSouth performs final GTT to a Global Crossing database, then Global Crossing agrees to provide BellSouth with the Destination Point Code for the Global Crossing database.

9.4.2.6 STPs shall provide on a non-discriminatory basis all functions of the OMAP commonly provided by STPs, as specified in the reference in Section 12.4.5 of this Attachment. All OMAP functions will be on a "where available" basis and can include:

9.4.2.6.1 MTP Routing Verification Test (MRVT); and

9.4.2.6.2 SCCP Routing Verification Test (SRVT).

9.4.2.7 In cases where the destination signaling point is a BellSouth local or tandem switching system or database, or is an Global Crossing or third party local or tandem switching system directly connected to the BellSouth SS7 network, STPs shall perform MRVT and SRVT to the destination signaling point. In all other cases, STPs shall perform MRVT and SRVT to a gateway pair of STPs in an SS7 network connected with the BellSouth SS7 network. This requirement shall be superseded by the specifications for Internetwork MRVT and SRVT if and when these become

approved ANSI standards and available capabilities of BellSouth STPs, and if mutually agreed upon by Global Crossing and BellSouth.

9.4.2.8 STPs shall be on parity with BellSouth.

9.4.2.9 SS7 Advanced Intelligent Network (AIN) Access

9.4.2.9.1 When technically feasible and upon request by Global Crossing, SS7 Access shall be made available in association with switching. SS7 AIN Access is the provisioning of AIN 0.1 triggers in an equipped BellSouth local switch and interconnection of the BellSouth SS7 network with the Global Crossing SS7 network to exchange TCAP queries and responses with an Global Crossing SCP.

9.4.2.9.2 SS7 AIN Access shall provide Global Crossing SCP access to BellSouth local switch in association with switching via interconnection of BellSouth SS7 and Global Crossing SS7 Networks. BellSouth shall offer SS7 access through its STPs. If BellSouth requires a mediation device on any part of its network specific to this form of access, BellSouth must route its messages in the same manner. The interconnection arrangement shall result in the BellSouth local switch recognizing the Global Crossing SCP as at least at parity with BellSouth's SCP's in terms of interfaces, performance and capabilities.

9.4.3 Interface Requirements

9.4.3.1 BellSouth shall provide the following STPs options to connect Global Crossing or Global Crossing-designated local switching systems or STPs to the BellSouth SS7 network:

9.4.3.1.1 An A-link interface from Global Crossing local switching systems; and,

9.4.3.1.2 A B-link interface from Global Crossing local STPs.

9.4.3.2 Each type of interface shall be provided by one or more sets (layers) of signaling links.

9.4.3.3 The Signaling Point of Interconnection (SPOI) for each link shall be located at a cross-connect element, such as a DSX-1, in the Central Office (CO) where BellSouth STP is located. There shall be a DS1 or higher rate transport interface at each of the SPOIs. Each signaling link shall appear as a DS0 channel within the DS1 or higher rate interface. BellSouth shall offer higher rate DS1 signaling for interconnecting Global Crossing local switching systems or STPs with BellSouth STPs as soon as these become approved ANSI standards and available capabilities of BellSouth STPs. BellSouth and Global Crossing will work jointly to establish mutually acceptable SPOIs.

9.4.3.4 BellSouth CO shall provide intraoffice diversity between the SPOIs and BellSouth STPs, so that no single failure of intraoffice facilities or equipment shall cause the failure of both B-links in a layer connecting to a BellSouth STP. BellSouth and Global Crossing will work jointly to establish mutually acceptable SPOIs.

9.4.3.5 STPs shall provide all functions of the MTP as defined in the applicable industry standard technical references.

9.4.3.6 Message Screening

9.4.3.6.1 BellSouth shall set message screening parameters so as to accept valid messages from Global Crossing local or tandem switching systems destined to any signaling point within BellSouth's SS7 network where the Global Crossing switching system has a legitimate signaling relation.

9.4.3.6.2 BellSouth shall set message screening parameters so as to pass valid messages from Global Crossing local or tandem switching systems destined to any signaling point or network accessed through BellSouth's SS7 network where the Global Crossing switching system has a legitimate signaling relation.

9.4.3.6.3 BellSouth shall set message screening parameters so as to accept and pass/send valid messages destined to and from Global Crossing from any signaling point or network interconnected through BellSouth's SS7 network where the Global Crossing SCP has a legitimate signaling relation.

9.4.4 STPs shall be equal to or better than all of the requirements for STPs set forth in the applicable industry standard technical references.

9.5 Service Control Points/Databases

9.5.1 Definition

9.5.1.1 Databases are the Network Elements that provide the functionality for storage of, access to, and manipulation of information required to offer a particular service and/or capability. Databases include, but are not limited to: Local Number Portability, LIDB, Toll Free Number Database, Automatic Location Identification/Data Management System, Calling Name Database, access to Service Creation Environment and Service Management System (SCE/SMS) application databases and Directory Assistance.

9.5.2 A Service Control Point (SCP) is a specific type of Database functionality deployed in a Signaling System 7 (SS7) network that executes service application logic in response to SS7 queries sent to it by a switching system also connected to the SS7

network. Service Management Systems provide operational interfaces to allow for provisioning, administration and maintenance of subscriber data and service application data stored in SCPs.

9.5.3 Technical Requirements for SCPs/Databases

9.5.3.1 Requirements for SCPs/Databases within this section address storage of information, access to information (e.g. signaling protocols, response times), and administration of information (e.g., provisioning, administration, and maintenance). All SCPs/Databases shall be provided to Global Crossing in accordance with the following requirements.

9.5.3.2 BellSouth shall provide physical access to SCPs through the SS7 network and protocols with TCAP as the application layer protocol.

9.5.3.3 BellSouth shall provide physical interconnection to databases via industry standard interfaces and protocols (e.g. SS7, ISDN and X.25).

9.5.3.4 The reliability of interconnection options shall be consistent with requirements for diversity and survivability.

9.5.4 Database Availability

9.5.4.1 Call processing databases shall have a maximum unscheduled availability of 30 minutes per year. Unavailability due to software and hardware upgrades shall be scheduled during minimal usage periods and only be undertaken upon proper notification to providers, which might be impacted. Any downtime associated with the provision of call processing related databases will impact all service providers, including BellSouth, equally.

9.5.4.2 The operational interface provided by BellSouth shall complete Database transactions (i.e., add, modify, delete) for Global Crossing customer records stored in BellSouth databases within 3 days, or sooner where BellSouth provisions its own customer records within a shorter interval.

9.6 Local Number Portability Database

9.6.1 Definition

9.6.2 The Permanent Number Portability (PNP) database supplies routing numbers for calls involving numbers that have been ported from one local service provider to another. PNP is currently being worked in industry forums. The results of these forums will dictate the industry direction of PNP. BellSouth agrees to provide access to the PNP database at rates, terms and conditions as set forth by BellSouth and in accordance with an effective FCC or Commission directive.

9.7 **SS7 Network Interconnection**

9.7.1 Definition.

9.7.2 SS7 Network Interconnection is the interconnection of Global Crossing local Signaling Transfer Point Switches (STP) and Global Crossing local or tandem switching systems with BellSouth STPs. This interconnection provides connectivity that enables the exchange of SS7 messages among BellSouth switching systems and databases (DBs), Global Crossing local or tandem switching systems, and other third-party switching systems directly connected to the BellSouth SS7 network.

9.7.3 Technical Requirements

9.7.3.1 SS7 Network Interconnection shall provide connectivity to all components of the BellSouth SS7 network. These include:

9.7.3.1.1 BellSouth local or tandem switching systems;

9.7.3.1.2 BellSouth DBs; and

9.7.3.1.3 Other third-party local or tandem switching systems.

9.7.4 The connectivity provided by SS7 Network Interconnection shall fully support the functions of BellSouth switching systems and DBs and Global Crossing or other third-party switching systems with A-link access to the BellSouth SS7 network.

9.7.5 If traffic is routed based on dialed or translated digits between an Global Crossing local switching system and a BellSouth or other third-party local switching system, either directly or via a BellSouth tandem switching system, then it is a requirement that the BellSouth SS7 network convey via SS7 Network Interconnection the TCAP messages that are necessary to provide Call Management services (Automatic Callback, Automatic Recall, and Screening List Editing) between the Global Crossing local STPs and BellSouth or other third-party local switch.

9.7.6 When the capability to route messages based on Intermediate Signaling Network Identifier (ISNI) is generally available on BellSouth STPs, the BellSouth SS7 Network shall also convey TCAP messages using SS7 Network Interconnection in similar circumstances where the BellSouth switch routes traffic based on a Carrier Identification Code (CIC).

9.7.7 SS7 Network Interconnection shall provide all functions of the MTP as specified in ANSI T1.111. This includes:

9.7.7.1 Signaling Data Link functions, as specified in ANSI T1.111.2;

9.7.7.2 Signaling Link functions, as specified in ANSI T1.111.3; and

9.7.7.3 Signaling Network Management functions, as specified in ANSI T1.111.4.

9.7.8 SS7 Network Interconnection shall provide all functions of the SCCP necessary for Class 0 (basic connectionless) service, as specified in ANSI T1.112. In particular, this includes Global Title Translation (GTT) and SCCP Management procedures, as specified in T1.112.4. Where the destination signaling point is a BellSouth switching system or DB, or is another third-party local or tandem switching system directly connected to the BellSouth SS7 network, SS7 Network Interconnection shall include final GTT of messages to the destination and SCCP Subsystem Management of the destination. Where the destination signaling point is an Global Crossing local or tandem switching system, SS7 Network Interconnection shall include intermediate GTT of messages to a gateway pair of Global Crossing local STPs, and shall not include SCCP Subsystem Management of the destination.

9.7.9 SS7 Network Interconnection shall provide all functions of the Integrated Services Digital Network User Part (ISDNUP), as specified in ANSI T1.113.

9.7.10 SS7 Network Interconnection shall provide all functions of the TCAP, as specified in ANSI T1.114.

9.7.11 If and when Internetwork MTP Routing Verification Test (MRVT) and SCCP Routing Verification Test (SRVT) become approved ANSI standards and available capabilities of BellSouth STPs, SS7 Network Interconnection shall provide these functions of the OMAP.

9.7.12 SS7 Network Interconnection shall be equal to or better than the following performance requirements:

9.7.12.1 MTP Performance, as specified in ANSI T1.111.6;

9.7.12.2 SCCP Performance, as specified in ANSI T1.112.5; and

9.7.12.3 ISDNUP Performance, as specified in ANSI T1.113.5.

9.7.13 Interface Requirements

9.7.13.1 BellSouth shall offer the following SS7 Network Interconnection options to connect Global Crossing or Global Crossing-designated local or tandem switching systems or STPs to the BellSouth SS7 network:

9.7.13.1.1 A-link interface from Global Crossing local or tandem switching systems; and

9.7.13.1.2 B-link interface from Global Crossing STPs.

9.7.13.2 The Signaling Point of Interconnection (SPOI) for each link shall be located at a cross-connect element, such as a DSX-1, in the Central Office (CO) where the BellSouth STP is located. There shall be a DS1 or higher rate transport interface at each of the SPOIs. Each signaling link shall appear as a DS0 channel within the DS1 or higher rate interface. BellSouth shall offer higher rate DS1 signaling links for interconnecting Global Crossing local switching systems or STPs with BellSouth STPs as soon as these become approved ANSI standards and available capabilities of BellSouth STPs. BellSouth and Global Crossing will work jointly to establish mutually acceptable SPOI.

9.7.13.3 BellSouth CO shall provide intraoffice diversity between the SPOIs and the BellSouth STP, so that no single failure of intraoffice facilities or equipment shall cause the failure of both B-links in a layer connecting to a BellSouth STP. BellSouth and Global Crossing will work jointly to establish mutually acceptable SPOI.

9.7.13.4 The protocol interface requirements for SS7 Network Interconnection include the MTP, ISDNUP, SCCP, and TCAP. These protocol interfaces shall conform to the applicable industry standard technical references.

9.7.13.5 BellSouth shall set message screening parameters to accept messages from Global Crossing local or tandem switching systems destined to any signaling point in the BellSouth SS7 network with which the Global Crossing switching system has a legitimate signaling relation.

9.7.13.6 SS7 Network Interconnection shall be equal to or better than all of the requirements for SS7 Network Interconnection set forth in the applicable industry standard technical references.

9.8 Rates

The prices that Global Crossing shall pay to BellSouth for Network Elements and Other Services are set forth in Exhibit C to this Attachment.

10. Operator Call Processing, Inward Operator Services and Directory Assistance Services

10.1 All of the negotiated rates, terms and conditions set forth in this Section pertain to the provision of Operator Call Processing, Inward Operator Services and Directory Assistance Services.

10.2 Operator Systems

10.2.1 Definition. Operator Systems is the Network Element that provides operator and automated call handling and billing, special services, end user telephone listings and optional call completion services. The Operator Systems, Network Element provides two types of functions: Operator Service functions and Directory Assistance Service functions, each of which are described in detail below.

10.3 Operator Service

10.3.1 Definition. Operator Service provides: (1) operator handling for call completion (for example, collect, third number billing, and manual credit card calls), (2) operator or automated assistance for billing after the end user has dialed the called number (for example, credit card calls); and (3) special services including but not limited to Busy Line Verification and Emergency Line Interrupt (ELI), Emergency Agency Call, Operator-assisted Directory Assistance, and Rate Quotes.

10.3.2 Requirements

10.3.2.1 When Global Crossing requests BellSouth to provide Operator Services, the following requirements apply:

10.3.2.1.1 BellSouth shall complete 0+ and 0- dialed local calls.

10.3.2.1.2 BellSouth shall complete 0+ intraLATA toll calls.

10.3.2.1.3 BellSouth shall process calls that are billed to Global Crossing end user's calling card that can be validated by BellSouth.

10.3.2.1.4 BellSouth shall complete person-to-person calls.

10.3.2.1.5 BellSouth shall complete collect calls.

10.3.2.1.6 BellSouth shall provide the capability for callers to bill to a third party and complete such calls.

10.3.2.1.7 BellSouth shall complete station-to-station calls.

10.3.2.1.8 BellSouth shall process emergency calls.

10.3.2.1.9 BellSouth shall process Busy Line Verify and Emergency Line Interrupt requests.

10.3.2.1.10 BellSouth shall process emergency call trace, as they do for their End users prior to the Effective Date. Call must originate from a 911 provider.

10.3.2.1.11 BellSouth shall process operator-assisted directory assistance calls.

10.3.2.1.12 BellSouth shall adhere to equal access requirements, providing Global Crossing local end users the same IXC access as provided to BellSouth end users.

10.3.2.1.13 BellSouth shall exercise at least the same level of fraud control in providing Operator Service to Global Crossing that BellSouth provides for its own operator service.

10.3.2.1.14 BellSouth shall perform Billed Number Screening when handling Collect, Person-to-Person, and Billed-to-Third-Party calls.

10.3.2.1.15 BellSouth shall direct customer account and other similar inquiries to the customer service center designated by Global Crossing.

10.3.2.1.16 BellSouth shall provide a feed of customer call records in "EMI" format to Global Crossing in accordance with CLEC ODUF standards specified in Attachment 7.

10.3.3 Interface Requirements

10.3.3.1 With respect to Operator Services for calls that originate on local switching capability provided by or on behalf of Global Crossing, the interface requirements shall conform to the then current established system interface specifications for the platform used to provide Operator Service and the interface shall conform to industry standards.

10.4 Directory Assistance Service

10.4.1 Definition. Directory Assistance Service provides local end user telephone number listings with the option to complete the call at the callers direction separate and distinct from local switching.

10.4.2 Requirements.

10.4.3 Directory Assistance Service shall provide up to two listing requests per call. If available and if requested by Global Crossing's end user, BellSouth shall provide caller-optional directory assistance call completion service at rates contained in this Attachment to one of the provided listings, equal to that which BellSouth provides its end users. If not available, Global Crossing may request such requirement pursuant to the Bona Fide Request/New Business Process as set forth in General Terms and Conditions.

10.4.4 Directory Assistance Service Updates

10.4.4.1 BellSouth shall update end user listings changes daily. These changes include:

10.4.4.1.1 New end user connections: BellSouth will provide service to Global Crossing that is equal to the service it provides to itself and its end users;

10.4.4.1.2 End user disconnections: BellSouth will provide service to Global Crossing that is equal to the service it provides to itself and its end users; and

10.4.4.1.3 End user address changes: BellSouth will provide service to Global Crossing that is equal to the service it provides to itself and its end users;

10.4.4.1.4 These updates shall also be provided for non-listed and non-published numbers for use in emergencies.

10.4.5 Branding for Operator Call Processing and Directory Assistance

10.4.5.1 The BellSouth Operator Systems Branding Feature provides a definable announcement to Global Crossing end users using Directory Assistance (DA)/Operator Call Processing (OCP) prior to placing them in queue or connecting them to an available operator or automated operator system. This feature allows Global Crossing to have its calls custom branded with Global Crossing's name on whose behalf BellSouth is providing Directory Assistance and/or Operator Call Processing. Rates for Custom Branding, Operator Call Process and Directory Assistance are set forth in this Attachment.

10.4.5.2 BellSouth offers four service levels of branding to Global Crossing when ordering Directory Assistance and/or Operator Call Processing.

10.4.5.2.1 Service Level 1 - BellSouth Branding

10.4.5.2.2 Service Level 2 - Unbranded

10.4.5.2.3 Service Level 3 - Custom Branding

10.4.5.2.4 Service Level 4 - Self Branding (applicable only to Global Crossing for Resale or use with an Unbundled Port when routing to an operator service provider other than BellSouth).

10.4.6 For Resellers and Use with an Unbundled Port

10.4.6.1 BellSouth Branding is the Default Service Level.

10.4.6.2 Unbranding, Custom Branding, and Self Branding require Global Crossing to order selective routing for each originating BellSouth end office identified by Global Crossing. Rates for Selective Routing are set forth in this Attachment.

10.4.6.3 Customer Branding and Self Branding require Global Crossing to order dedicated trunking from each BellSouth end office identified by Global Crossing, to either the BellSouth Traffic Operator Position System (TOPS) or Global Crossing Operator Service Provider. Rates for trunks are set forth in applicable BellSouth tariffs.

10.4.6.4 Unbranding - Unbranded Directory Assistance and/or Operator Call Processing calls ride common trunk groups provisioned by BellSouth from those end offices identified by Global Crossing to the BellSouth TOPS. These calls are routed to "No Announcement."

10.4.7 For Facilities Based Carriers

10.4.7.1 All Service Levels require Global Crossing to order dedicated trunking from their end office(s) point of interface to the BellSouth TOPS Switches. Rates for trunks are set forth in applicable BellSouth tariffs.

10.4.7.2 Customized Branding includes charges for the recording of the branding announcement and the loading of the audio units in each TOPS Switch, IVS and NAV equipment for which Global Crossing requires service.

10.4.8 Directory Assistance customized branding uses:

10.4.8.1 the recording of the name;

10.4.8.2 the front-end loading of the Digital Recorded Announcement Machine (DRAM) in each TOPS switch.

10.4.9 Operator Call Processing customized branding uses:

10.4.9.1 the recording of the name;

10.4.9.2 the front-end loading of the DRAM in the TOPS Switch;

10.4.9.3 the back-end loading in the audio units in the Automated Alternate Billing System (AABS) in the Interactive Voice Subsystem (IVS);

10.4.9.4 the 0- automation loading for the audio units in the Enhanced Billing and Access Service (EBAS) in the Network Applications Vehicle (NAV).

10.4.9.5 BellSouth will provide to Global Crossing purchasing local BellSouth switching and reselling BellSouth local exchange service, selective routing of calls to a requested directory assistance services platform or operator services platform. Global Crossing end users may use the same dialing arrangements as BellSouth end users, but obtain a Global Crossing branded service.

10.5 Directory Assistance Database Service (DADS)

10.5.1 BellSouth shall make its Directory Assistance Database Service (DADS) available solely for the expressed purpose of providing Directory Assistance type services to Global Crossing end users. The term "end user" denotes any entity which obtains Directory Assistance type services for its own use from a DADS customer. Directory Assistance type service is defined as Voice Directory Assistance (DA Operator assisted and Electronic Directory Assistance (Data System assisted)). Global Crossing agrees that Directory Assistance Database Service (DADS) will not be used for any purpose which violates federal or state laws, statutes, regulatory orders or tariffs. Except for the permitted users, Global Crossing agrees not to disclose DADS to others and shall provide due care in providing for the security and confidentiality of DADS. Further, Global Crossing authorizes the inclusion of Global Crossing Directory Assistance listings in the BellSouth Directory Assistance products.

10.5.2 BellSouth shall provide Global Crossing initially with a base file of subscriber listings which reflect all listing change activity occurring since Global Crossing's most recent update via magnetic tape, and subsequently using electronic connectivity such as Network Data Mover to be developed mutually by Global Crossing and BellSouth. Global Crossing agrees to assume the costs associated with CONNECT: Direct ™ connectivity, which will vary depending upon volume and mileage.

10.5.3 BellSouth will require approximately one month after receiving an order to prepare the Base File. BellSouth will provide daily updates which will reflect all listing change activity occurring since CLEC's most recent update. BellSouth shall provide updates to Global Crossing on a Business, Residence, or combined Business and Residence basis. Global Crossing agrees that the updates shall be used solely to keep the information current. Delivery of Daily Updates will commence the day after Global Crossing receives the Base File.

10.5.4 BellSouth is authorized to include Global Crossing Directory Assistance Listing Information in its Directory Assistance Database Service (DADS). Any other use by BellSouth of Global Crossing Directory Assistance Listing Information is not authorized and with the exception of a request for DADS, BellSouth shall refer any request for such information to Global Crossing.

10.5.5 Rates for DADS are as set forth in this Attachment.

10.6 **Direct Access to Directory Assistance Service**

10.6.1 Direct Access to Directory Assistance Service (DADAS) will provide Global Crossing's directory assistance operators with the ability to search all available BellSouth's subscriber listings using the Directory Assistance search format. Subscription to DADAS will allow Global Crossing to utilize its own switch, operator workstations and optional audio subsystems.

10.6.2 BellSouth will provide DADAS from its DA location. Global Crossing will access the DADAS system via a telephone company provided point of availability. Global Crossing has the responsibility of providing the physical links required to connect to the point of availability. These facilities may be purchased from the telephone company as rates and charges billed separately from the charges associated with this offering.

10.6.3 A specified interface to each Global Crossing subsystem will be provided by BellSouth. Interconnection between Global Crossing's system and a specified BellSouth location will be pursuant to the use of Global Crossing owned or Global Crossing leased facilities and shall be appropriate sized based upon the volume of queries being generated by Global Crossing.

10.6.4 The specifications for the three interfaces necessary for interconnection are available in the following documents:

10.6.4.1 DADAS to Subscriber Operator Position System—Northern Telecom Document CSI-2300-07; Universal Gateway/ Position Message Interface Format Specification;

10.6.4.2 DADAS to Subscriber Switch—Northern Telecom Document Q210-1 Version A107; NTDMS/CCIDAS System Application Protocol; and AT&T Document 250-900-535 Operator Services Position System Listing Service and Application Call Processing Data Link Interface Specification;

10.6.4.3 DADAS to Audio Subsystem (Optional)—Directory One Call Control to Audio Response Unit system interface specifications are available through Northern Telecom as a licensed access protocol—Northern Telecom Document 355-004424 and Gateway/Interactive Voice subsystem Protocol Specification.

10.6.5 Rates for DADAS are as set forth in this Attachment.

10.7 **Automatic Location Identification/Data Management System (ALI/DMS)**

10.7.1 The ALI/DMS Database contains end user information (including name, address, telephone information, and sometimes special information from the local service provider or end user) used to determine to which Public Safety Answering Point (PSAP) to route the call. The ALI/DMS database is used to provide more routing

flexibility for E911 calls than Basic 911. BellSouth shall provide the Emergency Services Database in accordance with the following:

10.7.2 Technical Requirements

10.7.2.1 BellSouth shall offer Global Crossing a data link to the ALI/DMS database or permit Global Crossing to provide its own data link to the ALI/DMS database. BellSouth shall provide error reports from the ALI/DMS database to Global Crossing immediately after Global Crossing inputs information into the ALI/DMS database. Alternately, Global Crossing may utilize BellSouth, to enter end user information into the data base on a demand basis, and validate end user information on a demand basis.

10.7.2.2 The ALI/DMS database shall contain the following end user information:

10.7.2.2.1 Name;

10.7.2.2.2 Address;

10.7.2.2.3 Telephone number; and

10.7.2.2.4 Other information as appropriate (e.g., whether a end user is blind or deaf or has another disability).

10.7.2.3 When BellSouth is responsible for administering the ALI/DMS database in its entirety, ported number NXXs entries for the ported numbers should be maintained unless Global Crossing requests otherwise and shall be updated if Global Crossing requests, provided Global Crossing supplies BellSouth with the updates.

10.7.2.4 When Remote Call Forwarding (RCF) is used to provide number portability to the local end user and a remark or other appropriate field information is available in the database, the shadow or "forwarded-to" number and an indication that the number is ported shall be added to the customer record.

10.7.2.5 If BellSouth is responsible for configuring PSAP features (for cases when the PSAP or BellSouth supports an ISDN interface) it shall ensure that CLASS Automatic Recall (Call Return) is not used to call back to the ported number. Although BellSouth currently does not have ISDN interface, BellSouth agrees to comply with this requirement once ISDN interfaces are in place.

10.7.3 Interface Requirements

The interface between the E911 Switch or Tandem and the ALI/DMS database for Global Crossing end users shall meet industry standards.

10.8 Rates

The prices that Global Crossing shall pay to BellSouth for Network Elements and Other Services are set forth in Exhibit C to this Attachment.

11. Calling Name (CNAM) Database Service

11.1 All of the negotiated rates, terms and conditions set forth in this Section pertain to the provision of CNAM.

11.2 The Agreement for Calling Name (CNAM) with standard pricing is included as Exhibit B to this Attachment. Global Crossing must provide to its account manager a written request with a requested activation date to activate this service. If Global Crossing is interested in requesting CNAM with volume and term pricing, Global Crossing must contact its account manager to request a separate CNAM volume and term Agreement.

11.3 SCPs/Databases shall be equal to or better than all of the requirements for SCPs/Databases set forth in the applicable industry standard technical references.

11.4 Service Creation Environment and Service Management System (SCE/SMS) Advanced Intelligent Network (AIN) Access

11.4.1 BellSouth's Service Creation Environment and Service Management System (SCE/SMS) Advanced Intelligent Network (AIN) Access shall provide Global Crossing the capability that will allow Global Crossing and other third parties to create service applications in a BellSouth Service Creation Environment and deploy those applications in a BellSouth SMS to a BellSouth SCP. The third party service applications interact with AIN triggers provisioned on a BellSouth SSP.

11.4.2 BellSouth's SCE/SMS AIN Access shall provide access to SCE hardware, software, testing and technical support (e.g., help desk, system administrator) resources available to Global Crossing. Scheduling procedures shall provide Global Crossing equivalent priority to these resources.

11.4.2 BellSouth SCP shall partition and protect Global Crossing service logic and data from unauthorized access, execution or other types of compromise.

11.4.3 When Global Crossing selects SCE/SMS AIN Access, BellSouth shall provide training, documentation, and technical support to enable Global Crossing to use BellSouth's SCE/SMS AIN Access to create and administer applications. Training, documentation, and technical support will address use of SCE and SMS access and administrative functions, but will not include support for the creation of a specific service application.

11.4.4 When Global Crossing selects SCE/SMS AIN Access, BellSouth shall provide for a secure, controlled access environment in association with its internal use of AIN

components. Global Crossing access will be provided via remote data connection (e.g., dial-in, ISDN).

11.4.5 When Global Crossing selects SCE/SMS AIN Access, BellSouth shall allow Global Crossing to download data forms and/or tables to BellSouth SCP via BellSouth SMS without intervention from BellSouth (e.g., service customization and end user subscription).

11.5 Rates

The prices that Global Crossing shall pay to BellSouth for Network Elements and Other Services are set forth in Exhibit C to this Attachment.

12. Basic 911 and E911

12.1 All of the negotiated terms and conditions set forth in this Section pertain to the provision of Basic 911 and E911.

12.2 If Global Crossing orders network elements and other services, then Global Crossing is also responsible for providing E911 to its end users. BellSouth agrees to offer access to the 911/E911 network pursuant to the following terms and conditions set forth in this Attachment.

12.3 Definition

12.4 Basic 911 and E911 is an additional requirement that provides a caller access to the applicable emergency service bureau by dialing a 3-digit universal telephone number (911).

12.5 Requirements

12.5.1 Basic 911 Service Provisioning. For Basic 911 service, BellSouth will provide to Global Crossing a list consisting of each municipality that subscribes to Basic 911 service. The list will also provide, if known, the E911 conversion date for each municipality and, for network routing purposes, a ten-digit directory number representing the appropriate emergency answering position for each municipality subscribing to 911. Global Crossing will be required to arrange to accept 911 calls from its end users in municipalities that subscribe to Basic 911 service and translate the 911 call to the appropriate 10-digit directory number as stated on the list provided by BellSouth. Global Crossing will be required to route that call to BellSouth at the appropriate tandem or end office. When a municipality converts to E911 service, Global Crossing will be required to discontinue the Basic 911 procedures and being using E911 procedures.

12.5.2 E911 Service Provisioning. For E911 service, Global Crossing will be required to install a minimum of two dedicated trunks originating from the Global Crossing serving wire center and terminating to the appropriate E911 tandem. The dedicated trunks shall be, at a minimum, DS-0 level trunks configured either as a 2-wire analog interface or as part of a digital (1.544 Mb/s) interface. Either configuration shall use CAMA-type signaling with multifrequency ("MF") pulsing that will deliver automatic number identification ("ANI") with the voice portion of the call. If the user interface is digital, MF pulses, as well as other AC signals, shall be encoded per the u-255 Law convention. Global Crossing will be required to provide BellSouth daily updates to the E911 database. Global Crossing will be required to forward 911 calls to the appropriate E911 tandem, along with ANI, based upon the current E911 end office to tandem homing arrangement as provided by BellSouth. If the E911 tandem trunks are

not available, Global Crossing will be required to route the call to a designated 7-digit local number residing in the appropriate Public Service Answering Point ("PSAP"). This call will be transported over BellSouth's interoffice network and will not carry the ANI of the calling party. Global Crossing shall be responsible for providing BellSouth with complete and accurate data for submission to the 911/E911 database for the purpose of providing 911/E911 to its end users.

12.5.3 Rates. Charges for 911/E911 service are borne by the municipality purchasing the service. BellSouth will impose no charge on Global Crossing beyond applicable charges for BellSouth trunking arrangements.

12.5.4 Basic 911 and E911 functions provided to Global Crossing shall be at least at parity with the support and services that BellSouth provides to its end users for such similar functionality.

12.5.5 Detailed Practices and Procedures. The detailed practices and procedures contained in the E911 Local Exchange Carrier Guide For Facility-Based Providers as amended from time to time during the term of this Agreement will determine the appropriate practices and procedures for BellSouth and Global Crossing to follow in providing 911/E911 services.

13. True-Up

This section applies only to North Carolina and Tennessee and other rates that are interim or expressly subject to true-up under this attachment.

13.1 The interim prices for Network Elements and Other Services and Local Interconnection shall be subject to true-up according to the following procedures:

13.2 The interim prices shall be trued-up, either up or down, based on final prices determined either by further agreement between the Parties, or by a final order (including any appeals) of the Commission which final order meets the criteria of (3) below. The Parties shall implement the true-up by comparing the actual volumes and demand for each item, together with interim prices for each item, with the final prices determined for each item. Each Party shall keep its own records upon which the true-up can be based, and any final payment from one Party to the other shall be in an amount agreed upon by the Parties based on such records. In the event of any disagreement as between the records or the Parties regarding the amount of such true-up, the Parties agree that the body having jurisdiction over the matter shall be called upon to resolve such differences, or the Parties may mutually agree to submit the matter to the Dispute Resolution process in accordance with the provisions of Section 16 of the General Terms and Conditions and Attachment 1 of the Agreement.

13.3 The Parties may continue to negotiate toward final prices, but in the event that no such Agreement is reached within nine (9) months, either Party may petition the Commission to resolve such disputes and to determine final prices for each item. Alternatively, upon mutual agreement, the Parties may submit the matter to the Dispute Resolution Process set forth in Section 16 of the General Terms and Conditions and Attachment 1 of the Agreement, so long as they file the resulting Agreement with the Commission as a "negotiated Agreement" under Section 252(e) of the Act.

13.4 A final order of this Commission that forms the basis of a true-up shall be the final order as to prices based on appropriate cost studies, or potentially may be a final order in any other Commission proceeding which meets the following criteria:

(a) BellSouth and Global Crossing are entitled to be a full Party to the proceeding;

(b) It shall apply the provisions of the federal Telecommunications Act of 1996, including but not limited to Section 252(d)(1) (which contains pricing standards) and all then-effective implementing rules and regulations; and,

(c) It shall include as an issue the geographic deaveraging of network element and other services prices, which deaveraged prices, if any are required by said final order, shall form the basis of any true-up.

EXHIBIT A

LINE INFORMATION DATA BASE (LIDB) STORAGE AGREEMENT

I. SCOPE

A. This Agreement sets forth the terms and conditions pursuant to which BellSouth agrees to store in its LIDB certain information at the request of Global Crossing and pursuant to which BellSouth, its LIDB customers and Global Crossing shall have access to such information. Global Crossing understands that BellSouth provides access to information in its LIDB to various telecommunications service providers pursuant to applicable tariffs and agrees that information stored at the request of Global Crossing, pursuant to this Agreement, shall be available to those telecommunications service providers. The terms and conditions contained in the attached Addendum(s) are hereby made a part of this Agreement as if fully incorporated herein.

B. LIDB is accessed for the following purposes:

1. Billed Number Screening
2. Calling Card Validation
3. Fraud Control

C. BellSouth will provide seven days per week, 24-hours per day, fraud monitoring on Calling Cards, bill-to-third and collect calls made to numbers in BellSouth's LIDB, provided that such information is included in the LIDB query. BellSouth will establish fraud alert thresholds and will notify Global Crossing of fraud alerts so that Global Crossing may take action it deems appropriate. Global Crossing understands and agrees BellSouth will administer all data stored in the LIDB, including the data provided by Global Crossing pursuant to this Agreement, in the same manner as BellSouth's data for BellSouth's end user customers. BellSouth shall not be responsible to Global Crossing for any lost revenue which may result from BellSouth's administration of the LIDB pursuant to its established practices and procedures as they exist and as they may be changed by BellSouth in its sole discretion from time to time.

Global Crossing understands that BellSouth currently has in effect numerous billing and collection agreements with various interexchange carriers and billing clearing houses. Global Crossing further understands that these billing and collection customers of BellSouth query BellSouth's LIDB to determine whether to accept various billing options from end users. Additionally, Global Crossing understands that presently BellSouth has no method to differentiate between BellSouth's own billing and line data in the LIDB and such data which it includes in the LIDB on

Global Crossing's behalf pursuant to this Agreement. Therefore, until such time as BellSouth can and does implement in its LIDB and its supporting systems the means to differentiate Global Crossing's data from BellSouth's data and the Parties to this Agreement execute appropriate amendments hereto, the following terms and conditions shall apply:

(a) Global Crossing agrees that it will accept responsibility for telecommunications services billed by BellSouth for its billing and collection customers for Global Crossing's end user accounts which are resident in LIDB pursuant to this Agreement. Global Crossing authorizes BellSouth to place such charges on Global Crossing's bill from BellSouth and agrees that it shall pay all such charges. Charges for which Global Crossing hereby takes responsibility include, but are not limited to, collect and third number calls.

(b) Charges for such services shall appear on a separate BellSouth bill page identified with the name of the entity for which BellSouth is billing the charge.

(c) Global Crossing shall have the responsibility to render a billing statement to its end users for these charges, but Global Crossing's obligation to pay BellSouth for the charges billed shall be independent of whether Global Crossing is able or not to collect from Global Crossing's end users.

(d) BellSouth shall not become involved in any disputes between Global Crossing and the entities for which BellSouth performs billing and collection. BellSouth will not issue adjustments for charges billed on behalf of an entity to Global Crossing. It shall be the responsibility of Global Crossing and the other entity to negotiate and arrange for any appropriate adjustments.

II. TERM

This Agreement will be effective as of _____, and will continue in effect for one year, and thereafter may be continued until terminated by either Party upon thirty (30) days written notice to the other Party.

III. FEES FOR SERVICE AND TAXES

A. Global Crossing will not be charged a fee for storage services provided by BellSouth to Global Crossing, as described in Section I of this Agreement.

B. Sales, use and all other taxes (excluding taxes on BellSouth's income) determined by BellSouth or any taxing authority to be due to any federal, state or local taxing jurisdiction with respect to the provision of the service set forth herein will be paid by

Global Crossing. Global Crossing shall have the right to have BellSouth contest with the imposing jurisdiction, at Global Crossing's expense, any such taxes that Global Crossing deems are improperly levied.

IV. INDEMNIFICATION

To the extent not prohibited by law, each Party will indemnify the other and hold the other harmless against any loss, cost, claim, injury, or liability relating to or arising out of negligence or willful misconduct by the indemnifying Party or its agents or contractors in connection with the indemnifying Party's provision of services, provided, however, that any indemnity for any loss, cost, claim, injury or liability arising out of or relating to errors or omissions in the provision of services under this Agreement shall be limited as otherwise specified in this Agreement. The indemnifying Party under this Section agrees to defend any suit brought against the other Party for any such loss, cost, claim, injury or liability. The indemnified Party agrees to notify the other Party promptly, in writing, of any written claims, lawsuits, or demands for which the other Party is responsible under this Section and to cooperate in every reasonable way to facilitate defense or settlement of claims. The indemnifying Party shall not be liable under this Section for settlement by the indemnified Party of any claim, lawsuit, or demand unless the defense of the claim, lawsuit, or demand has been tendered to it in writing and the indemnifying Party has unreasonably failed to assume such defense.

V. LIMITATION OF LIABILITY

Neither Party shall be liable to the other Party for any lost profits or revenues or for any indirect, incidental or consequential damages incurred by the other Party arising from this Agreement or the services performed or not performed hereunder, regardless of the cause of such loss or damage.

VI. MISCELLANEOUS

A. It is understood and agreed to by the Parties that BellSouth may provide similar services to other companies.

B. All terms, conditions and operations under this Agreement shall be performed in accordance with, and subject to, all applicable local, state or federal legal and regulatory tariffs, rulings, and other requirements of the federal courts, the U. S. Department of Justice and state and federal regulatory agencies. Nothing in this Agreement shall be construed to cause either Party to violate any such legal or regulatory requirement and either Party's obligation to perform shall be subject to all such requirements.

C. Global Crossing agrees to submit to BellSouth all advertising, sales promotion, press releases, and other publicity matters relating to this Agreement wherein BellSouth's corporate or trade names, logos, trademarks or service marks or those of BellSouth's affiliated companies are mentioned or language from which the connection of said names or trademarks therewith may be inferred or implied; and Global Crossing further agrees not to publish or use advertising, sales promotions, press releases, or publicity matters without BellSouth's prior written approval.

D. This Agreement constitutes the entire Agreement between Global Crossing and BellSouth which supersedes all prior Agreements or contracts, oral or written representations, statements, negotiations, understandings, proposals and undertakings with respect to the subject matter hereof.

E. Except as expressly provided in this Agreement, if any part of this Agreement is held or construed to be invalid or unenforceable, the validity of any other Section of this Agreement shall remain in full force and effect to the extent permissible or appropriate in furtherance of the intent of this Agreement.

F. Neither Party shall be held liable for any delay or failure in performance of any part of this Agreement for any cause beyond its control and without its fault or negligence, such as acts of God, acts of civil or military authority, government regulations, embargoes, epidemics, war, terrorist acts, riots, insurrections, fires, explosions, earthquakes, nuclear accidents, floods, strikes, power blackouts, volcanic action, other major environmental disturbances, unusually severe weather conditions, inability to secure products or services of other persons or transportation facilities, or acts or omissions of transportation common carriers.

G. This Agreement shall be deemed to be a contract made under the laws of the State of Georgia, and the construction, interpretation and performance of this Agreement and all transactions hereunder shall be governed by the domestic law of such State.

FACILITIES BASED ADDENDUM TO LINE INFORMATION DATA BASE (LIDB) STORAGE AGREEMENT

This is a Facilities Based Addendum to the Line Information Data Base Storage Agreement dated _____, between BellSouth Telecommunications, Inc. ("BellSouth"), and _____("Global Crossing"), effective the _____ day of _____, _____.

I. GENERAL

This Addendum sets forth the terms and conditions for Global Crossing's provision of billing number information to BellSouth for inclusion in BellSouth's LIDB. BellSouth will store in its LIDB the billing number information provided by Global Crossing, and BellSouth will provide responses to on-line, call-by-call queries to this information for purposes specified in Section I.B. of the Agreement.

II. DEFINITIONS

A. Billing number - a number that Global Crossing creates for the purpose of identifying an account liable for charges. This number may be a line or a special billing number.

B. Line number - a ten digit number that identifies a telephone line administered by Global Crossing.

C. Special billing number - a ten digit number that identifies a billing account established by Global Crossing.

D. Calling Card number - a billing number plus PIN number.

E. PIN number - a four digit security code assigned by Global Crossing which is added to a billing number to compose a fourteen digit calling card number.

F. Toll billing exception indicator - associated with a billing number to indicate that it is considered invalid for billing of collect calls or third number calls or both, by Global Crossing.

G. Billed Number Screening - refers to the activity of determining whether a toll billing exception indicator is present for a particular billing number.

H. Calling Card Validation - refers to the activity of determining whether a particular calling card number exists as stated or otherwise provided by a caller.

I. Billing number information - information about billing number, Calling Card number and toll billing exception indicator provided to BellSouth by Global Crossing.

III. RESPONSIBILITIES OF PARTIES

A. Global Crossing will provide its billing number information to BellSouth's LIDB each business day by a method that has been mutually agreed upon by both Parties.

B. BellSouth will store in its LIDB the billing number information provided by Global Crossing. Under normal operating conditions, BellSouth shall include Global Crossing's billing number information in its LIDB no later than two business days following BellSouth's receipt of such billing number information, provided that BellSouth shall not be held responsible for any delay or failure in performance to the extent such delay or failure is caused by circumstances or conditions beyond BellSouth's reasonable control. BellSouth will store in its LIDB an unlimited volume of Global Crossing's working telephone numbers.

C. BellSouth will provide responses to on-line, call-by-call queries to the stored information for the specific purposes listed in the next paragraph.

D. BellSouth is authorized to use the billing number information provided by Global Crossing to perform the following functions for authorized users on an on-line basis:

1. Validate a 14 digit Calling Card number where the first 10 digits are a line number or special billing number assigned by Global Crossing, and where the last four digits (PIN) are a security code assigned by Global Crossing.

2. Determine whether Global Crossing or the subscriber has identified the billing number as one which should not be billed for collect or third number calls, or both.

E. Global Crossing will provide its own billing number information to BellSouth for storage and to be used for Billed Number Screening and Calling Card Validation. Global Crossing will arrange and pay for transport of updates to BellSouth.

IV. COMPLIANCE

Unless expressly authorized in writing by Global Crossing, all billing number information provided pursuant to this Addendum shall be used for no purposes other than those set forth in this Addendum.

EXHIBIT B

CALLING NAME DELIVERY (CNAM) DATABASE SERVICES

1. Definitions

For the purpose of this Attachment, the following terms shall be defined as:

CALLING NAME DELIVERY DATABASE SERVICE (CNAM) - The ability to associate a name with the calling party number, allowing the end user subscriber (to which a call is being terminated) to view the calling party's name before the call is answered. This service also provides Global Crossing the opportunity to load and store its subscriber names in the BellSouth CNAM SCPs.

CALLING PARTY NUMBER (CPN) - The number of the calling party that is delivered to the terminating switch using common channel signaling system 7 (CCS7) technology, and that is contained in the Initial Address Message (IAM) portion of the CCS7 call setup.

COMMON CHANNEL SIGNALING SYSTEM 7 (CCS7) - A network signaling technology in which all signaling information between two or more nodes is transmitted over high-speed data links, rather than over voice circuits.

SERVICE CONTROL POINTs (SCPs) - The real-time data base systems that contain the names to be provided in response to queries received from CNAM SSPs.

SERVICE MANAGEMENT SYSTEM (SMS) - The main operations support system of CNAM DATABASE SERVICE. CNAM records are loaded into the SMS, which in turn downloads into the CNAM SCP.

SERVICE SWITCHING POINTs (SSPs) - Features of computerized switches in the telephone network that determine that a terminating line has subscribed to CNAM service, and then communicate with CNAM SCPs in order to provide the name associated with the calling party number.

SUBSYSTEM NUMBER (SSN) - The address used in the Signaling Connection Control Part (SCCP) layer of the SS7 protocol to designate an application at an end signaling point. A SSN for CNAM at the end office designates the CNAM application within the end office. BellSouth uses the CNAM SSN of 232.

2. Attachment

2.1 This Attachment contains the terms and conditions where BellSouth will provide to the Global Crossing access to the BellSouth CNAM SCP for query or record storage purposes.

2.2 Global Crossing shall submit to BellSouth a notice of its intent to access and utilize BellSouth CNAM Database Services pursuant to the terms and conditions of this Attachment. Said notice shall be in writing, no less than 60 days prior to Global Crossing's access to BellSouth's CNAM Database Services and shall be addressed to Global Crossing's Account Manager.

3. Physical Connection and Compensation

3.1 BellSouth's provision of CNAM Database Services to Global Crossing requires interconnection from Global Crossing to BellSouth CNAM Service Control Points (SCPs). Such interconnections shall be established pursuant to Attachment 3 of this Agreement . The appropriate charge for access to and use of the BellSouth CNAM Database service shall be as set forth in this Attachment.

3.2 In order to formulate a CNAM query to be sent to the BellSouth CNAM SCP, Global Crossing shall provide its own CNAM SSP. Global Crossing's CNAM SSPs must be compliant with TR-NWT-001188, "CLASS Calling Name Delivery Generic Requirements".

3.3 If Global Crossing elects to access the BellSouth CNAM SCP via a third party CCS7 transport provider, the third party CCS7 provider shall interconnect with the BellSouth CCS7 network according to BellSouth's Common Channel Signaling Interconnection Guidelines and Telcordia (formerly BellCore)'s CCS Network Interface Specification document, TR-TSV-000905. In addition, the third party provider shall establish CCS7 interconnection at the BellSouth Local Signal Transfer Points (LSTPs) serving the BellSouth CNAM SCPs that Global Crossing desires to query.

3.4 Out-Of-Region Customers
If the customer queries the BellSouth CNAM SCP via a third party national SS7 transport provider, the third party SS7 provider shall interconnect with the BellSouth CCS7 network according to BellSouth's Common Channel Signaling Interconnection Guidelines and Telcordia's (formerly BellCore's) CCS Network Interface Specification document, TR-TSV-000905. In addition, the third party provider shall establish SS7 interconnection at one or more of the BellSouth Gateway Signal Transfer Points (STPs). The payment of all costs associated with the transport of SS7 signals via a third party will be established by mutual agreement of the Parties in writing and shall, by this reference become an integral part of this Agreement.

4. CNAM Record Initial Load and Updates

4.1 The mechanism to be used by Global Crossing for initial CNAM record load and or updates shall be determined by mutual agreement. The initial load and all updates shall be provided by Global Crossing in the BellSouth specified format and shall contain records for every working telephone number that can originate phone calls. It is the responsibility of Global Crossing to provide accurate information to BellSouth on a current basis.

4.2 Updates to the SMS shall occur no less than once a week, reflect service order activity affecting either name or telephone number, and involve only record additions, deletions or changes.

4.3 Global Crossing CNAM records provided for storage in the BellSouth CNAM SCP shall be available, on a SCP query basis only, to all Parties querying the BellSouth CNAM SCP. Further, CNAM service shall be provided by each Party consistent with state and/or federal regulation.

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NID (all types), per month	UNDAX	NA	$1 08	NA	$1 80	NA	NA	$0 52	NA	$0 56
Installation of 2-Wire/4Wire CLEC NID	UNDAX									
NRC - 1st	UNDAX	NA	$70 32	NA	NA	NA	NA	NA	NA	NA
NRC - Add'l	UNDAX	NA	$54 35	NA	NA	NA	NA	NA	NA	NA
NID to NID Cross Connect, 2-Wire or 4-Wire, NRC	UNDC2	NA	$6 15	NA	NA	NA	NA	NA	NA	NA
NID per 2-Wire Analog VG Loop, Per Month	UNDAX	$1 18	NA	$1 10	NA	$1 09	$1 22	$1 01	$1 13	NA
NRC - 1st	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 36	NA
NRC - Add'l	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 36	NA
NRC - Disconnect Charge - 1st	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 23	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 23	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NID per 4-Wire Analog VG Loop, Per Month	UNDAX	$1 30	NA	$1 21	NA	$1 22	$1 34	$1 14	$1 25	NA
NRC - 1st	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 35	NA
NRC - Add'l	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 35	NA
NRC - Disconnect Charge - 1st	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 20	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 20	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 06	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NID per 2-Wire ISDN Digital VG Loop, Per Month	UNDAX	$1 18	NA	$1 10	NA	$1 08	$1 22	$1 01	$1 13	NA
NRC - 1st	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 36	NA
NRC - Add'l	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 36	NA
NRC - Disconnect Charge - 1st	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 23	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 23	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NID per 2-Wire Asymmetrical Dig Subscriber Line (ADSL) Loop, Per Mo.	UNDAX	$1 18	NA	$1 10	NA	$1 09	$1 22	$1 01	$1 13	NA
NRC - 1st	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 36	NA
NRC - Add'l	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 36	NA
NRC - Disconnect Charge - 1st	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 23	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 23	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect -1st	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NID per 2-Wire High Bit Rate Dig Subscriber Line (HDSL) Loop	UNDAX	$1 18	NA	$1 10	NA	$1 09	$1 22	$1 01	$1 13	NA
NRC - 1st	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 36	NA
NRC - Add'l	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 36	NA
NRC - Disconnect Charge - 1st	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 23	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 23	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect -1st	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NID per 4-Wire High Bit Rate Dig Subscriber Line (HDSL) Loop	UNDAX	$1 30	NA	$1 21	NA	$1 21	$1 34	$1 14	$1 25	NA
NRC - 1st	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 35	NA
NRC - Add'l	UNDAX	$1 44	NA	$2 10	NA	$2 02	$2 84	$1 42	$1 35	NA
NRC - Disconnect Charge - 1st	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 20	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	$1 44	NA	NA	NA	$2 01	$2 84	$1 20	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 06	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17.77	NA	NA	NA	$11.41	$16.06	NA	NA	NA
NID per 4-Wire 56 Kbps Dig Grade Loop	UNDAX	$1.30	NA	$1.21	NA	$1.21	$1.34	$1.14	$1.25	NA
NRC - 1st	UNDAX	$1.44	NA	$2.10	NA	$2.02	$2.84	$1.42	$1.35	NA
NRC - Add'l	UNDAX	$1.44	NA	$2.10	NA	$2.02	$2.84	$1.42	$1.35	NA
NRC - Disconnect Charge - 1st	UNDAX	$1.44	NA	NA	NA	$2.01	$2.84	$1.20	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	$1.44	NA	NA	NA	$2.01	$2.84	$1.20	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27.37	NA	$18.94	NA	$18.14	$25.52	$26.34	$44.06	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12.97	NA	$8.42	NA	$8.06	$11.34	$12.76	$13.55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17.77	NA	NA	NA	$11.41	$16.06	NA	NA	NA
NID per 4-Wire 64 Kbps Dig Grade Loop	UNDAX	$1.30	NA	$1.21	NA	$1.21	$1.34	$1.14	$1.25	NA
NRC - 1st	UNDAX	$1.44	NA	$2.10	NA	$2.02	$2.84	$1.42	$1.35	NA
NRC - Add'l	UNDAX	$1.44	NA	$2.10	NA	$2.02	$2.84	$1.42	$1.35	NA
NRC - Disconnect Charge - 1st	UNDAX	$1.44	NA	NA	NA	$2.01	$2.84	$1.20	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	$1.44	NA	NA	NA	$2.01	$2.84	$1.20	NA	NA
NRC - Incremental Charge - Manual Svc Ord - 1st	SOMAN	$27.37	NA	$18.94	NA	$18.14	$25.52	$26.94	$44.06	NA
NRC - Incremental Charge - Manual Svc Ord - Add'l	SOMAN	$12.97	NA	$8.42	NA	$8.06	$11.34	$12.76	$13.55	NA
NRC - Incremental Charge - Manual Svc Ord - Disconnect - 1st	SOMAN	$17.77	NA	NA	NA	$11.41	$16.06	NA	NA	NA
NID per 2-Wire Unbundled Copper Loop, per m onth	UNDAX	$1.55	$1.55	$1.55	$1.55	$1.55	$1.55	$1.55	$1.55	$1.55
NRC - 1st	UNDAX	$5.60	$5.60	$5.60	$5.60	$5.60	$5.60	$5.60	$5.60	$5.60
NRC - Add'l	UNDAX	$5.60	$5.60	$5.60	$5.60	$5.60	$5.60	$5.60	$5.60	$5.60
NRC - Disconnect Charge - 1st	UNDAX	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge - Manual Svc. Ord - 1st	SOMAN	$47.00	$47.00	$47.00	$47.00	$47.00	$47.00	$47.00	$47.00	$47.00
NRC - Incremental Charge - Manual Svc. Ord - Add'l	SOMAN	$21.00	$21.00	$21.00	$21.00	$21.00	$21.00	$21.00	$21.00	$21.00
NRC - Incremental Charge - Manual Svc. Ord. - Disconnect	SOMAN	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nonrecurring Charge - custom er transfer, feature additions, changes (1)		$5.00	NA	NA	NA	NA	$5.00	NA	NA	NA
LOOP, EXCLUDING NID										
2-Wire Analog VG Loop (Standard), per m onth	TBD	NA	NA	NA	$18.20	NA	NA	NA	NA	NA
NRC - 1st		NA	NA	NA	$86.08	NA	NA	NA	NA	NA
NRC - Add'l		NA	NA	NA	$58.57	NA	NA	NA	NA	NA
2-Wire Analog VG Loop (Customized), per month	TBD	NA	NA	NA	$21.41	NA	NA	NA	NA	NA
NRC - 1st		NA	NA	NA	$236.75	NA	NA	NA	NA	NA
NRC - Add'l		NA	NA	NA	$177.10	NA	NA	NA	NA	NA
4-Wire Analog VG Loop (Standard), per m onth	TBD	NA	NA	NA	$26.38	NA	NA	NA	NA	NA
NRC - 1st		NA	NA	NA	$457.14	NA	NA	NA	NA	NA
NRC - Add'l		NA	NA	NA	$348.83	NA	NA	NA	NA	NA
2-Wire ISDN Digital Grade Loop (Standard), per m onth	TBD	NA	NA	NA	$29.65	NA	NA	NA	NA	NA
NRC - 1st		NA	NA	NA	$541.28	NA	NA	NA	NA	NA
NRC - Add'l		NA	NA	NA	$431.61	NA	NA	NA	NA	NA
2-Wire ADSL Loop (Standard), per m onth	TBD	NA	NA	NA	$10.63	NA	NA	NA	NA	NA
NRC - 1st		NA	NA	NA	$713.50	NA	NA	NA	NA	NA
NRC - Add'l		NA	NA	NA	$609.44	NA	NA	NA	NA	NA
2-Wire HDSL Loop (Standard), per m onth	TBD	NA	NA	NA	$7.40	NA	NA	NA	NA	NA
NRC - 1st		NA	NA	NA	$713.50	NA	NA	NA	NA	NA
NRC - Add'l		NA	NA	NA	$609.44	NA	NA	NA	NA	NA
4-Wire HDSL Loop (Standard), per m onth	TBD	NA	NA	NA	$9.70	NA	NA	NA	NA	NA
NRC - 1st		NA	NA	NA	$748.93	NA	NA	NA	NA	NA
NRC - Add'l		NA	NA	NA	$646.17	NA	NA	NA	NA	NA
LOOP, INCLUDING NID										
2-Wire Analog VG Loop										

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
RC - Statewide, per month	UEAL2	NA	$17 00	NA	NA	NA	NA	$16 71	NA	$18 00
RC - Zone 1, per month (Note 2)	TBD	NA	$13 75	NA	NA	NA	NA	TBD	NA	$15 54
RC - Zone 2, per month (Note 2)	TBD	NA	$20 13	NA	NA	NA	NA	TBD	NA	$19 55
RC - Zone 3, per month (Note 2)	TBD	NA	$44 40	NA	NA	NA	NA	TBD	NA	$28 02
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - 1st	UEAL2	NA	$140 00	NA	NA	NA	NA	$86 50	NA	$58 50
NRC - Add'l	UEAL2	NA	$42 00	NA	NA	NA	NA	$27 80	NA	$31 00
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	NA	$55.00	NA	NA	NA	NA	$55 00	NA	$55 00
2-Wire Analog VG Loop-SL1										
RC - Statewide, per month	UEAL2	$19 04	$17 00	$16 51	NA	$19 35	$21 26	$15 88	$22 49	$18 00
RC - Zone 1, per month (Note 2)	TBD	$16 90	$13 75	$14 21	NA	$15 82	$15 58	TBD	$18 48	$15 54
RC - Zone 2, per month (Note 2)	TBD	$21 76	$20 13	$16 41	NA	$21 75	$20 65	TBD	$27 87	$19 55
RC - Zone 3, per month (Note 2)	TBD	$28 48	$44 40	$26 08	NA	$32 93	$34 77	TBD	$36 91	$28 02
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$45 88	NA	NA	NA
NRC - 1st	UEAL2	$59 03	$80 00	$42 54	NA	$40 69	$59 25	$57 99	$70 44	$78 93
NRC - Add'l	UEAL2	$43 14	$55 00	$31 33	NA	$29 96	$43 67	$42 37	$44 05	$50 98
NRC - Disconnect Charge - 1st	UEAL2	$15 21	NA	NA	NA	$16 48	$16 35	$12 94	NA	NA
NRC - Disconnect Charge - Add'l	UEAL2	$3.22	NA	NA	NA	$3 36	$4 06	$2 75	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27.37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 22	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12.97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17.77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NRC - Manual Order Coordination - 1st	TBD	NA	NA	NA	NA	NA	NA	$61 38	NA	NA
NRC - Manual Order Coordination - addl	TBD	NA	NA	NA	NA	NA	NA	$61 38	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	TBD	NA	NA	NA	NA	NA	NA	$45 34	NA	NA
NRC - Loop Make-Up	UEANM	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
2-Wire Analog VG Loop-SL2 w/loop or ground start signaling										
RC - Statewide, per month	UEAL2	$22 43	$17 00	$19 57	NA	$22 84	$25 05	$19 50	$26 25	$26 02
RC - Zone 1, per month (Note 2)	TBD	$19 90	$13.75	$16 84	NA	$18 67	$18 35	TBD	$21 57	$22 46
RC - Zone 2, per month (Note 2)	TBD	$25.63	$20 13	$19 45	NA	$25 67	$24 33	TBD	$32 53	$28 27
RC - Zone 3, per month (Note 2)	TBD	$33.55	$44 40	$30 92	NA	$38 86	$34 77	TBD	$43 08	$40 51
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - 1st	UEAL2	$145 46	$140 00	$104 17	NA	$99 69	$144 01	$142 97	$178 12	$192 97
NRC - Add'l	UEAL2	$108.40	$42 00	$78 10	NA	$74 73	$107 70	$106 56	$128 80	$140 72
NRC - Disconnect Charge - 1st	UEAL2	$40 31	NA	NA	NA	$28 73	$40 98	$34 28	NA	NA
NRC - Disconnect Charge - Add'l	UEAL2	$26.01	NA	NA	NA	$18 87	$26 95	$22 12	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27.37	NA	$18.94	NA	$18 14	$25 52	$26 94	$44 42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12.97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17.77	NA	NA	NA	$11 41	$26 95	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	$45.99	$55.00	$34 22	NA	$32 77	$45 27	$45 34	$45 43	$55 00
2-Wire Analog VG Loop-SL2 w/ reverse battery signaling										
RC - Statewide, per month	UEAR2	$22 43	$17 00	$19 57	NA	$22 84	$25 05	$19 50	$26 25	$26 02
RC - Zone 1, per month (Note 2)	TBD	$19 90	$13 75	$16 84	NA	$18 67	$18 35	TBD	$21 57	$22 46
RC - Zone 2, per month (Note 2)	TBD	$25 63	$20 13	$19 45	NA	$25 67	$24 33	TBD	$32 53	$28 27
RC - Zone 3, per month (Note 2)	TBD	$33 55	$44 40	$30 92	NA	$38 86	$34 77	TBD	$43 08	$40 51
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$45 88	NA	NA	NA
NRC - 1st	UEAR2	$145 46	$140 00	$104 17	NA	$99 69	$144 01	$142 97	$178 12	$192 97
NRC - Add'l	UEAR2	$108 40	$42 00	$78 10	NA	$74 73	$107 70	$106 56	$128 80	$140 72
NRC - Disconnect Charge - 1st	UEAR2	$40 31	NA	NA	NA	$28 73	$40 98	$34 28	NA	NA
NRC - Disconnect Charge - Add'l	UEAR2	$26 01	NA	NA	NA	$18 87	$26 95	$22 12	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$29 64	$44 42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	$11 41	$26 95	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOCL	$45 99	$55 00	$34 22	NA	$32 77	$45 27	$45 34	$45 43	$55 00

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
2-Wire Analog VG Loop (Standard)										
RC - Statewide, per month	UEAL2	NA	NA	NA	$20 00	NA	NA	NA	NA	NA
RC - Zone 1, per month (Note 2)	TBD	NA	NA	NA	$14 79	NA	NA	NA	NA	NA
RC - Zone 2, per month (Note 2)	TBD	NA	NA	NA	$27 68	NA	NA	NA	NA	NA
RC - Zone 3, per month (Note 2)	TBD	NA	NA	NA	$47 78	NA	NA	NA	NA	NA
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - 1st	UEAL2	NA	NA	NA	$86 08	NA	NA	NA	NA	NA
NRC - Add'l	UEAL2	NA	NA	NA	$58 57	NA	NA	NA	NA	NA
NRC - Loop Make-up	UEANM	NA	NA	NA	TBD	NA	NA	NA	NA	NA
NRC - Manual Order Coordination	UEAMC	NA	NA	NA	TBD	NA	NA	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	NA	NA	NA	$55 00	NA	NA	NA	NA	NA
2-Wire Analog VG Loop (Customized), w/ loop or ground start signaling										
RC - Statewide, per month	UEAL2	NA	NA	NA	$23 35	NA	NA	NA	NA	NA
RC - Zone 1, per month (Note 2)	TBD	NA	NA	NA	$17 27	NA	NA	NA	NA	NA
RC - Zone 2, per month (Note 2)	TBD	NA	NA	NA	$32 32	NA	NA	NA	NA	NA
RC - Zone 3, per month (Note 2)	TBD	NA	NA	NA	$55 78	NA	NA	NA	NA	NA
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - 1st	UEAL2	NA	NA	NA	$236 75	NA	NA	NA	NA	NA
NRC - Add'l	UEAL2	NA	NA	NA	$177 10	NA	NA	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	NA	NA	NA	$55.00	NA	NA	NA	NA	NA
2-Wire Analog VG Loop (Customized), w/ reverse battery signaling										
RC - Statewide, per month	UEAR2	NA	NA	NA	$23 35	NA	NA	NA	NA	NA
RC - Zone 1, per month (Note 2)	TBD	NA	NA	NA	$17 27	NA	NA	NA	NA	NA
RC - Zone 2, per month (Note 2)	TBD	NA	NA	NA	$32 32	NA	NA	NA	NA	NA
RC - Zone 3, per month (Note 2)	TBD	NA	NA	NA	$55 78	NA	NA	NA	NA	NA
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - 1st	UEAR2	NA	NA	NA	$236 75	NA	NA	NA	NA	NA
NRC - Add'l	UEAR2	NA	NA	NA	$177 10	NA	NA	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	NA	NA	NA	$55 00	NA	NA	NA	NA	NA
4-Wire Analog VG Loop										
RC - Statewide, per month	UEAL4	$30 00	$30 00	$25 86	NA	$31 52	$30 55	$27 49	$35 86	$18 00
RC - Zone 1, per month (Note 2)	TBD	$26 62	$24 26	$22 26	NA	$25 76	$22 38	TBD	$29 47	$15 54
RC - Zone 2, per month (Note 2)	TBD	$34 28	$35 51	$25 70	NA	$35 42	$29 67	TBD	$44 44	$19 55
RC - Zone 3, per month (Note 2)	TBD	$44 87	$76 35	$40 85	NA	$53 63	$42 40	TBD	$58 85	$28 02
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$55 96	NA	NA	NA
NRC - 1st	UEAL4	$293 70	$141 00	$206 95	NA	$198 10	$289 06	$288 47	$383 39	$58 50
NRC - Add'l	UEAL4	$241 76	$43 00	$170 57	NA	$163 26	$238 19	$237 45	$286 77	$31 00
NRC - Disconnect Charge - 1st	UEAL4	$108 98	NA	NA	NA	$74 27	$108 14	$90 44	NA	NA
NRC - Disconnect Charge - Add'l	UEAL4	$57 01	NA	NA	NA	$39 44	$57 28	$47 33	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 06	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	$45 99	$55 00	$34 22	NA	$32 77	$45 27	$45 34	$45 43	$55 00
4-Wire Analog VG Loop (Standard)										
RC - Statewide, per month	UEAL4	NA	NA	NA	$28 28	NA	NA	NA	NA	NA
RC - Zone 1, per month (Note 2)	TBD	NA	NA	NA	$20 92	NA	NA	NA	NA	NA
RC - Zone 2, per month (Note 2)	TBD	NA	NA	NA	$39 14	NA	NA	NA	NA	NA
RC - Zone 3, per month (Note 2)	TBD	NA	NA	NA	$67 56	NA	NA	NA	NA	NA
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - 1st	UEAL4	NA	NA	NA	$457 14	NA	NA	NA	NA	NA
NRC - Add'l	UEAL4	NA	NA	NA	$348 83	NA	NA	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	NA	NA	NA	$55 00	NA	NA	NA	NA	NA
2-Wire ISDN Digital Grade Loop										

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
RC - Statewide, per month	U1L2X	$29.03	$40.00	$25.43	NA	$27.36	$29.83	$24.98	$32.47	$18.00
RC - Zone 1, per month (Note 2)	TBD	$25.76	$32.34	$21.89	NA	$22.36	$21.86	TBD	$26.68	$15.54
RC - Zone 2, per month (Note 2)	TBD	$33.17	$47.35	$25.27	NA	$30.75	$28.97	TBD	$40.24	$19.55
RC - Zone 3, per month (Note 2)	TBD	$43.42	$104.47	$40.17	NA	$40.56	$41.40	TBD	$53.29	$28.02
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$54.64	NA	NA	NA
NRC - 1st	U1L2X	$331.85	$306.00	$233.38	NA	$223.27	$326.38	$325.91	$423.04	$58.50
NRC - Add'l	U1L2X	$255.87	$283.00	$180.35	NA	$172.63	$252.00	$251.31	$301.75	$31.00
NRC - Disconnect Charge - 1st	U1L2X	$108.95	NA	NA	NA	$74.27	$108.14	$92.53	NA	NA
NRC - Disconnect Charge - Add'l	U1L2X	$57.01	NA	NA	NA	$39.44	$57.27	$48.42	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27.37	NA	$18.94	NA	$18.14	$25.52	$26.94	$44.42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12.97	NA	$8.42	NA	$8.06	$11.34	$12.76	$13.55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17.77	NA	NA	NA	$11.41	$16.06	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	$45.99	$55.00	$34.22	$55.00	$32.77	$45.27	$45.34	$45.43	$55.00
2-Wire ISDN Digital Grade Loop (Standard)										
RC - Statewide, per month	U1L2X	NA	NA	NA	$31.99	NA	NA	NA	NA	NA
RC - Zone 1, per month (Note 2)	TBD	NA	NA	NA	$23.66	NA	NA	NA	NA	NA
RC - Zone 2, per month (Note 2)	TBD	NA	NA	NA	$44.28	NA	NA	NA	NA	NA
RC - Zone 3, per month (Note 2)	TBD	NA	NA	NA	$76.42	NA	NA	NA	NA	NA
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - 1st	U1L2X	NA	NA	NA	$541.28	NA	NA	NA	NA	NA
NRC - Add'l	U1L2X	NA	NA	NA	$431.61	NA	NA	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	NA	NA	NA	$55.00	NA	NA	NA	NA	NA
2-Wire Asymmetrical Dig Subscriber Line (ADSL) Compatible Loop										
RC - Statewide, per month	UAL2X	$15.11	$15.81	$13.05	NA	$15.39	$14.83	$14.60	$20.81	$18.46
RC - Zone 1, per month (Note 2)	TBD	$13.41	$12.78	$11.23	NA	$12.58	$10.87	TBD	$17.10	$15.93
RC - Zone 2, per month (Note 2)	TBD	$17.26	$18.72	$12.97	NA	$17.30	$14.40	TBD	$25.79	$20.05
RC - Zone 3, per month (Note 2)	TBD	$22.60	$41.29	$20.62	NA	$26.19	$20.58	TBD	$34.15	$28.74
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$27.16	NA	NA	NA
NRC - 1st	UAL2X	$514.21	$113.85	$359.73	NA	$343.13	$504.82	$504.90	$600.61	$640.79
NRC - Add'l	UAL2X	$464.58	$99.61	$325.15	NA	$310.03	$456.24	$456.17	$507.33	$541.94
NRC - Disconnect Charge - 1st	UAL2X	$106.65	NA	NA	NA	$72.54	$105.86	$90.55	NA	NA
NRC - Disconnect Charge - Add'l	SOMAN	$56.98	NA	NA	NA	$39.42	$57.25	$48.40	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27.37	NA	$18.94	NA	$18.14	$25.52	$26.94	$44.42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12.97	NA	$8.42	NA	$8.06	$11.34	$12.76	$13.55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17.77	NA	NA	NA	$11.41	$16.06	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	$45.99	$55.00	$34.22	NA	$32.77	$45.27	$45.34	$45.43	$55.00
2-Wire ADSL Loop (Standard)										
RC - Statewide, per month	UAL2X	NA	NA	NA	$11.89	NA	NA	NA	NA	NA
RC - Zone 1, per month (Note 2)	TBD	NA	NA	NA	$8.79	NA	NA	NA	NA	NA
RC - Zone 2, per month (Note 2)	TBD	NA	NA	NA	$16.46	NA	NA	NA	NA	NA
RC - Zone 3, per month (Note 2)	TBD	NA	NA	NA	$28.40	NA	NA	NA	NA	NA
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - 1st	UAL2X	NA	NA	NA	$713.50	NA	NA	NA	NA	NA
NRC - Add'l	UAL2X	NA	NA	NA	$609.44	NA	NA	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	NA	NA	NA	$55.00	NA	NA	NA	NA	NA
2-Wire High Bit Rate Dig Subscriber Line (HDSL) Compatible Loop										
RC - Statewide, per month	UHL2X	$11.76	$12.12	$9.15	NA	$11.61	$11.60	$11.98	$14.86	$13.46
RC - Zone 1, per month (Note 2)	TBD	$10.44	$9.80	$7.88	NA	$9.49	$8.50	TBD	$12.21	$11.62
RC - Zone 2, per month (Note 2)	TBD	$13.44	$14.35	$9.09	NA	$13.05	$11.26	TBD	$18.41	$14.62
RC - Zone 3, per month (Note 2)	TBD	$17.59	$31.65	$14.46	NA	$19.76	$16.10	TBD	$24.39	$20.96
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$21.25	NA	NA	NA
NRC - 1st	UHL2X	$514.21	$113.85	$359.73	NA	$343.13	$504.82	$504.90	$600.61	$640.79
NRC - Add'l	UHL2X	$464.58	$99.61	$325.15	NA	$310.03	$456.24	$456.17	$507.33	$541.94

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - Disconnect Charge - 1st	UHL2X	$106 65	NA	NA	NA	$72 54	$105 86	$90 55	NA	NA
NRC - Disconnect Charge - Add'l	UHL2X	$56 98	NA	NA	NA	$39 42	$57 25	$48 40	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	$45 99	$55.00	$34 22	NA	$32 77	$45 27	$45 34	$45 43	$55 00
2-Wire HDSL Loop (Standard)										
RC - Statewide, per month	UHL2X	NA	NA	NA	$8 51	NA	NA	NA	NA	NA
RC - Zone 1, per month (Note 2)	TBD	NA	NA	NA	$6 29	NA	NA	NA	NA	NA
RC - Zone 2, per month (Note 2)	TBD	NA	NA	NA	$11 78	NA	NA	NA	NA	NA
RC - Zone 3, per month (Note 2)	TBD	NA	NA	NA	$20 33	NA	NA	NA	NA	NA
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - 1st	UHL2X	NA	NA	NA	$713 50	NA	NA	NA	NA	NA
NRC - Add'l	UHL2X	NA	NA	NA	$609 44	NA	NA	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	NA	NA	NA	$55 00	NA	NA	NA	NA	NA
4-Wire High Bit Rate Dig Subscriber Line (HDSL) Compatible Loop										
RC - Statewide, per month	UHL4X	$14.39	$18 24	$12 07	NA	$16 39	$14 14	$13 97	$19 73	$17 91
RC - Zone 1, per month (Note 2)	TBD	$12.77	$14.75	$10 39	NA	$13 40	$10 36	TBD	$16 21	$15 46
RC - Zone 2, per month (Note 2)	TBD	$16 44	$21 59	$12 00	NA	$16 42	$13 73	TBD	$24 45	$19 46
RC - Zone 3, per month (Note 2)	TBD	$21.52	$47.64	$19 07	NA	$27 89	$19 62	TBD	$32 38	$27 88
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$25 90	NA	NA	NA
NRC - 1st	UHL4X	$541.13	$116.91	$378 86	NA	$361 45	$531 21	$531 35	$625 11	$666 70
NRC - Add'l	UHL4X	$491 50	$101.71	$344 28	NA	$328 35	$482 63	$482 62	$532 78	$568 86
NRC - Disconnect Charge - 1st	UHL4X	$106.65	NA	NA	NA	$72 54	$105 86	$88 51	NA	NA
NRC - Disconnect Charge - Add'l	UHL4X	$56.98	NA	NA	NA	$39 42	$57 25	$47 31	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27.37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 06	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8.42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect -1st	SOMAN	$17.77	NA	NA	NA	$11.41	$16 06	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	$45.99	$55.00	$34.22	NA	$32 77	$45 27	$45 34	$45 43	$55 00
4-Wire HDSL Loop (Standard)										
RC - Statewide, per month	UHL4X	NA	NA	NA	$10 39	NA	NA	NA	NA	NA
RC - Zone 1, per month (Note 2)	TBD	NA	NA	NA	$7 68	NA	NA	NA	NA	NA
RC - Zone 2, per month (Note 2)	TBD	NA	NA	NA	$14 38	NA	NA	NA	NA	NA
RC - Zone 3, per month (Note 2)	TBD	NA	NA	NA	$24 82	NA	NA	NA	NA	NA
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - 1st	UHL4X	NA	NA	NA	$748 93	NA	NA	NA	NA	NA
NRC - Add'l	UHL4X	NA	NA	NA	$646.17	NA	NA	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	NA	NA	NA	$55.00	NA	NA	NA	NA	NA
4-Wire DS1 Digital Loop										
RC - Statewide, per month	USLXX	$64.65	$80 00	$64 52	$67 96	$72 86	$69 59	$62 78	$72 55	TBD
RC - Zone 1, per month (Note 2)	TBD	$57 37	$64 69	$55 53	$50 26	$59 56	$50 99	TBD	$59 61	TBD
RC - Zone 2, per month (Note 2)	TBD	$73 87	$94 71	$64 13	$94 06	$81 88	$67 58	TBD	$89 90	TBD
RC - Zone 3, per month (Note 2)	TBD	$96 69	$208.93	$101 93	$162 34	$123 98	$96 58	TBD	$119 06	TBD
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$127 47	NA	NA	NA
NRC - 1st	USLXX	$610 13	$540 00	$429 98	$849 80	$410 38	$599 09	$714 84	$715 77	TBD
NRC - Add'l	USLXX	$380 26	$465.00	$268.18	$523 27	$255 48	$373 90	$421 47	$421 50	TBD
NRC - Disconnect Charge - 1st	USLXX	$134 77	NA	NA	NA	$92 35	$133 53	NA	NA	NA
NRC - Disconnect Charge - Add'l	USLXX	$55.97	NA	NA	NA	$38 44	$56 25	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27.37	NA	$18.94	NA	$18 14	$25 52	$42 19	$43 77	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$13 55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	$49 18	$55.00	$34.52	$55 00	$33 05	$48 17	$48 31	$48 47	NA
4-Wire 56 Kbps Dig Grade Loop										

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
RC - Statewide, per month	UDL56	$34 15	$48 33	$29 92	NA	$35 58	$34 95	$32 67	$41 70	$42 23
RC - Zone 1, per month (Note 2)	TBD	$30.30	$39 08	$25.75	NA	$29 08	$25 61	TBD	$34 26	$36 45
RC - Zone 2, per month (Note 2)	TBD	$39.02	$57 21	$29.74	NA	$39 98	$33 94	TBD	$51 67	$45 87
RC - Zone 3, per month (Note 2)	TBD	$51.07	$126.22	$47.27	NA	$60 54	$48 51	TBD	$68 43	$65 75
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$64 02	NA	NA	NA
NRC - 1st	UDL56	$498.05	$654 72	$348.55	NA	$333 28	$489 00	$489 04	$602 73	$643 00
NRC - Add'l	UDL56	$343.70	$428 45	$241.20	NA	$230 50	$337 93	$337 51	$393 50	$421 26
NRC - Disconnect Charge - 1st	UDL56	$129.62	NA	NA	NA	$87 99	$128 36	$107 58	$44 06	NA
NRC - Disconnect Charge - Add'l	UDL56	$64.25	NA	NA	NA	$44 24	$64 35	$53 33	$13 55	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27.37	NA	$18.94	NA	$18 14	$25 52	$26 94	NA	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12.97	NA	$8 42	NA	$8 06	$11 34	$12 76	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17.77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	$45.99	$55.00	$34.22	NA	$32 77	$45 27	$45 34	$45 43	$55 00
4-Wire 56Kbps Dig Grade Loop										
RC - Statewide, per month	UDL64	$34 15	$48 33	$29 22	NA	$35 58	$34 95	$32 67	$41 70	$42 23
RC - Zone 1, per month (Note 2)	TBD	$30.30	$39 08	$25 75	NA	$29 08	$25 61	TBD	$34 26	$36 45
RC - Zone 2, per month (Note 2)	TBD	$39.02	$57 21	$29 74	NA	$39.98	$33 94	TBD	$51 67	$45 87
RC - Zone 3, per month (Note 2)	TBD	$51.07	$126 22	$47 27	NA	$60 54	$48 51	TBD	$68 43	$65 75
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$64 02	NA	NA	NA
NRC - 1st	UDL64	$498.05	$654.72	$348.55	NA	$333 28	$489 00	$489 04	$602 73	$643 00
NRC - Add'l	UDL64	$343.70	$428.45	$241.20	NA	$230 50	$337 93	$337 51	$393 50	$421 26
NRC - Disconnect Charge - 1st	UDL64	$129.62	NA	NA	NA	$87.99	$128 36	$107 58	$44 06	NA
NRC - Disconnect Charge - Add'l	UDL64	$64.25	NA	NA	NA	$44 24	$64 35	$53 33	$13 55	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27.37	NA	$18 94	NA	$18 14	$25 52	$26 94	NA	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12.97	NA	$8 42	NA	$8 06	$11 34	$12 76	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17.77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NRC - Incremental Charge - Order Coordination - Time Specific (per LSR)	OCOSL	$45.99	$55.00	$34.22	NA	$32 77	$45 27	$45 34	$45 43	$55 00
2-Wire Unbundled Copper Loop (18kft or less) Note 3										
RC - Statewide, per month	UCLPB	$15 11	$18 00	$13 97	$11 89	$21 00	$14 83	$19 00	$20 81	$12 16
RC - Zone 1, per month (Note 2)	TBD	TBD	$18 60	$19 80	TBN	$18 80	$16 85	TBD	$18 90	$19 85
RC - Zone 2, per month (Note 2)	TBD	TBD	$27 23	$22 86	TBN	$25 85	$22 34	TBD	$28 50	$24 98
RC - Zone 3, per month (Note 2)	TBD	TBD	$60 07	$36 34	TBN	$39 14	$31 92	TBD	$37 75	$35 81
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$42 13	NA	NA	NA
NRC - 1st	UCLPB	$514 21	$340 00	$395 16	$713 50	$340 00	$504 82	$504 90	$600 61	$270 01
NRC - Add'l	UCLPB	$464 58	$300 00	$217 39	$609 44	$300 00	$456 24	$456 17	$507 33	$234 63
NRC - Disconnect Charge - 1st	UCLPB	NA	NA	NA	NA	$72 54	$105 86	$90 55	NA	$74 54
NRC - Disconnect Charge - Add'l	UCLPB	NA	NA	NA	NA	$39 42	$57 25	$48 40	NA	$39 14
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$47 00	$47 00	$18 94	$47 00	$18 14	$25 52	$26 94	$25 52	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$21.00	$21.00	$8 42	$21 00	$8 06	$11 34	$12 76	$47 00	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	NA	NA	$142 27	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	$17 77	NA	$37 86	$17 77	$11 41	$16 06	NA	$21 00	NA
NRC - Incremental Charge - Manual Order Coordination - per loop	UCLMC	$16.00	$16 00	$36 46	NA	$32 77	$45 27	$45 34	$45 43	$34 29
2-Wire Unbundled Copper Loop (>18kft) Note 3										
RC - Statewide, per month	UCL2L	$40 00	$35 00	$41 61	$40 00	$37 00	$45 00	$35 00	$40 00	$35 00
RC - Zone 1, per month (Note 2)	TBD	TBD	$18 60	$19 80	TBN	$18 80	$16 85	TBD	$18 90	$19 85
RC - Zone 2, per month (Note 2)	TBD	TBD	$27 23	$22 86	TBN	$25 85	$22 34	TBD	$28 50	$24 98
RC - Zone 3, per month (Note 2)	TBD	TBD	$60 07	$36 34	TBN	$39 14	$31 92	TBD	$37 75	$35 81
RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	$42 13	NA	NA	NA
NRC - 1st	UCL2L	$514 21	$340 00	$395 16	$713 50	$340 00	$504 82	$504 90	$600 61	$270 01
NRC - Add'l	UCL2L	$464 58	$300 00	$217 39	$609 44	$300 00	$456 24	$456 17	$507 33	$234 63
NRC - Disconnect Charge - 1st	UCL2L	NA	NA	NA	NA	$72 54	$105 86	$90 55	NA	$74 54
NRC - Disconnect Charge - Add'l	UCL2L	NA	NA	NA	NA	$39 42	$57 25	$48 40	NA	$39 14
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$47 00	$47 00	$18 94	$47 00	$18 14	$25 52	$26 94	$25 52	NA

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$21.00	$21.00	$8.42	$21.00	$8.06	$11.34	$12.76	$47.00	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	NA	NA	$142.27	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	$17.77	NA	$37.86	$17.77	$11.41	$16.06	NA	$21.00	NA
NRC - Incremental Charge - Manual Order Coordination - per loop	UCLMC	$16.00	$16.00	$36.46	NA	$32.77	$45.27	$45.34	$45.43	$34.29
DS3 Unbundled Local Loop										
DS3 Unbundled Local Loop - per mile	1L5ND	$43.96	$40.01	$29.96	$43.69	$38.98	$54.39	$32.53	$56.71	$30.53
DS3 Unbundled Local Loop- per Facility Termination	UE3PX	$456.18	$470.83	$392.61	$436.95	$497.08	$427.81	$387.01	$510.30	$400.21
NRC - Facility Termination - 1st	UE3PX	$973.58	$770.47	$770.96	$1,091.00	$709.14	$975.22	$964.04	$1,091.00	$726.16
NRC - Facility Termination - Add'l	UE3PX	$547.59	$436.40	$437.71	$661.23	$402.63	$549.17	$542.73	$654.13	$411.64
NRC - Facility Termination - Disconnect - 1st	UE3PX	$132.56	$108.95	$111.07	NA	$102.16	$134.07	$131.65	NA	$103.36
NRC - Facility Termination - Disconnect - Add'l	UE3PX	$129.07	$106.01	$108.14	NA	$99.46	$130.59	$128.19	NA	$100.59
NRC - Incremental Charge-Manual Svc Order - 1st	SOMAC	$70.10	NA	$54.64	$93.12	$50.25	$68.62	$69.34	$92.52	$53.03
NRC - Incremental Charge-Manual Svc Order - Add'l	SOMAC	$70.10	NA	$54.64	$93.12	$50.25	$68.62	$69.34	$92.52	$53.03
NRC - Incremental Cost - Manual Svc. Order vs. Elect-Disconnect-1st	SOMAC	$30.09	NA	$22.77	NA	$20.94	$28.59	$29.76	NA	$22.95
NRC - Incremental Cost - Manual Svc. Order vs. Elect-Disconnect-Add'l	SOMAC	$30.09	NA	$22.77	NA	$20.94	$28.59	$29.76	NA	$22.95
STS-1 Unbundled Local Loop										
STS-1 Unbundled Local Loop - per mile	1L5ND	$43.96	$40.01	$29.96	$43.69	$38.98	$54.39	$32.53	$56.71	$30.53
STS-1 Unbundled Local Loop- per Facility Termination	UDLS1	$456.18	$470.83	$392.61	$436.95	$497.08	$427.81	$387.01	$510.30	$400.21
- STS-1 - Facility Termination - 1st	UDLS1	$973.58	$770.47	$770.96	$1,091	$709.14	$975.22	$964.04	$1,091	$726.16
- STS-1 - Facility Termination - Add'l	UDLS1	$547.59	$436.40	$437.71	$661.23	$402.63	$549.17	$542.73	$654.13	$411.64
- STS-1 - Facility Termination - Disconnect - 1st	UDLS1	$132.56	$108.95	$111.07	NA	$102.16	$134.07	$131.65	NA	$103.36
- STS-1 - Facility Termination - Disconnect - Add'l	UDLS1	$129.07	$106.01	$108.14	NA	$99.46	$130.59	$128.19	NA	$100.59
NRC - STS-1 - Incremental Charge-Manual Svc Order - 1st	SOMAC	$70.10	NA	$54.64	$93.12	$50.25	$68.62	$69.34	$92.52	$53.03
NRC - STS-1 - Incremental Charge-Manual Svc Order - Add'l	SOMAC	$70.10	NA	$54.64	$93.12	$50.25	$68.62	$69.34	$92.52	$53.03
NRC - STS-1 - Incremental Cost - Manual Svc. Order vs. Elect-Disconnect-1st	SOMAC	$30.09	NA	$22.77	NA	$20.94	$28.59	$29.76	NA	$22.95
NRC - STS-1 - Incremental Cost - Manual Svc. Order vs. Elect-Disconnect-Add'l	SOMAC	$30.09	NA	$22.77	NA	$20.94	$28.59	$29.76	NA	$22.95
Unbundled Loop Modification - Note 3										
Load Coil/Equipment Removal per pair - Loops up to 18kft	ULM2L	$80.55	$80.55	$80.55	$80.55	$80.55	$80.55	$80.55	$80.55	$80.55
Load Coil/Equipment Removal per pair - Loops > 18kft - 1st	ULM2G	$880.08	$880.08	$880.08	$880.08	$880.08	$880.08	$880.08	$880.08	$880.08
Load Coil/Equipment Removal per pair - Loops > 18kft - Add'l	ULM2G	$27.30	$27.30	$27.30	$27.30	$27.30	$27.30	$27.30	$27.30	$27.30
Bridged Tap Removal per pair unloaded	ULMBT	$121.14	$121.14	$121.14	$121.14	$121.14	$121.14	$121.14	$121.14	$121.14
Loop Make-Up Service Inquiry - Note 3										
Per Service Inquiry	UMKLP	$233.75	$233.75	$233.75	$233.75	$233.75	$233.75	$233.75	$233.75	$233.75
Unbundled Sub-Loops										
Sub-Loop Analog										
Loop Distribution per 2-Wire Analog VG Loop (Including NID), per month	USBN2	NA	$8.57	$9.12	$10.83	BFR	NA	NA	NA	$9.79
NRC - Set-Up per Cross Box location - CLEC Feeder Facility set-up	USBSA	TBN	TBD	TBD	TBD	TBN	TBN	TBN	TBN	TBD
NRC - Set-Up per Cross Box location - per 25 pair panel set-up	USBSB	TBN	TBD	TBD	TBD	TBN	TBN	TBN	TBN	TBD
NRC - 1st	USBN2	TBN	$78.28	$207.01	$459.85	TBN	TBN	TBN	TBN	$586.00
NRC - Add'l	USBN2	TBN	$58.33	$171.32	$352.89	TBN	TBN	TBN	TBN	$255.00
NRC - Disconnect Charge - 1st	USBN2	TBN	NA	NA	NA	TBN	TBN	TBN	TBN	NA
NRC - Disconnect Charge - Add'l	USBN2	TBN	NA	NA	NA	TBN	TBN	TBN	TBN	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	TBN	NA	$18.94	NA	TBN	TBN	TBN	TBN	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	TBN	NA	$8.42	NA	TBN	TBN	TBN	TBN	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	TBN	NA	NA	NA	TBN	TBN	TBN	TBN	NA
NRC - Incremental Charge - Manual Order Coordination - per loop	USBMC	TBN	TBD	TBD	TBD	TBN	TBN	TBN	TBN	TBD
Loop Distribution per 2-Wire Analog VG Loop (Excluding NID), per month	TBD	NA	NA	NA	$9.95	NA	NA	NA	NA	$9.23
NRC - Set-Up per Cross Box location - CLEC Feeder Facility set-up	USBSA	NA	NA	NA	$9.95	NA	NA	NA	NA	TBD
NRC - Set-Up per Cross Box location - per 25 pair panel set-up	USBSB	NA	NA	NA	$9.95	NA	NA	NA	NA	TBD
NRC - 1st	TBD	NA	NA	NA	$459.85	NA	NA	NA	NA	$587.00
NRC - Add'l	TBD	NA	NA	NA	$352.89	NA	NA	NA	NA	$255.00
NRC - Incremental Charge - Manual Order Coordination - per loop	USBMC	TBN	TBD	TBN	TBN	TBN	TBN	TBN	TBN	TBD
Loop Distribution per 4-Wire Analog VG Loop (Incl NID), per month	USBN4	TBN	$11.29	TBN	TBN	TBN	TBN	TBN	TBN	TBD

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
[illegible]-Up per Cross Box location - CLEC Feeder Facility set-up	USBSA	TBN	TBD	TBN	TBN	TBN	TBN	TBN	TBN	TBD
[illegible]-Up per Cross Box location - per 25 pair panel set-up	USBSB	TBN	TBD	TBN	TBN	TBN	TBN	TBN	TBN	TBD
[illegible]	USBN4	TBN	$112 07	TBN	TBN	TBN	TBN	TBN	TBN	TBD
[illegible]l	USBN4	TBN	$92 11	TBN	TBN	TBN	TBN	TBN	TBN	TBD
[illegible]remental Charge - Manual Order Coordination - per loop	USBMC	TBN	TBD	TBN	TBN	TBN	TBN	TBN	TBN	TBD
[illegible]building Network Cable (I NC) (riser cable), 2W analog, per month	USBR2									
[illegible]et-Up per Building Equipment Room - CLEC Feeder Facility set-up	USBSC	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
[illegible] - Set-Up per Building Equipment Room - per 25 pair panel set-up	USBSD	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
[illegible] - 1st	USBR2	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Add'l	USBR2	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Disconnect Charge - 1st	USBR2	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Disconnect Charge - Add'l	USBR2	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Incremental Charge - Manual Order Coordination - per loop	USBMC	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
Sub-Loop-Intrabuilding Network Cable (I NC) (riser cable), 4W analog, per month	USBR4	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Set-Up per Building Equipment Room - CLEC Feeder Facility set-up	USBSC	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Set-Up per Building Equipment Room - per 25 pair panel set-up	USBSD	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - 1st	USBR4	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Add'l	USBR4	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Disconnect Charge - 1st	USBR4	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Disconnect Charge - Add'l	USBR4	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
NRC - Incremental Charge - Manual Order Coordination - per loop	USBMC	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
Unbundled Network Terminating Wire										
UNTW Pair, per pair, per month	UENPP	TBN	$0 67	$1 56	$1 24	NA	NA	NA	NA	$1 31
Site Visit Survey, per MDU/MTU Complex, NRC	UENVS	TBN	$225 00	$225 00	$225 00	NA	NA	NA	NA	$225 00
Site Visit Set-Up – Terminal Preparation, per terminal										
NRC - 1st terminal	UENSS	TBN	$98 00	$98 00	$98 00	TBN	TBN	TBN	TBN	$98 00
NRC - Add'l terminal	UENSS	TBN	$65 00	$65 00	$65 00	TBN	TBN	TBN	TBN	$65 00
Access Terminal Provisioning & 1st 25 pair panel (SPOI), per terminal, NRC	UEN1T	TBN	$110 00	$110 00	$110 00	TBN	TBN	TBN	TBN	$110 00
Existing Access Terminal Provisioning, 2nd 25 pair panel, per terminal, NRC	UEN2T	TBN	$35 00	$35 00	$35 00	TBN	TBN	TBN	TBN	$35 00
UNTW Pair Provisioning, per pair, NRC	UENPP	TBN	$9 00	$9 00	$9 00	TBN	TBN	TBN	TBN	$9 00
Service Visit for Provisioning, per request, per premises, NRC	UENSV	TBN	$55 00	$55 00	$55 00	TBN	TBN	TBN	TBN	$55 00
Manual Service Order, NRC	MOCLA	TBN	$45 00	$45 00	$45 00	TBN	TBN	TBN	TBN	$45 00
Sub-Loop Concentration - Channelization Sys (Outside CO)										
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	TBD	$18 94	TBD	BFR	BFR	BFR	BFR	TBD
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	TBD	$8 42	TBD	BFR	BFR	BFR	BFR	TBD
TR008 - System A (96 channel capacity - channels 1-96), per month	UCT8A	NA	$792 49	$724 79	$757 00	NA	NA	NA	NA	$683 78
NRC - 1st	UCT8A	NA	$640 93	$632 36	$633 94	NA	NA	NA	NA	$634 31
NRC - Add'l	UCT8A	NA	$315 03	$310 82	$311 60	NA	NA	NA	NA	$311 78
TR008 - System B (96 channel capacity - channels 97-192), per month			$155 32	$92 91	$95 00	NA	NA	NA	NA	$102 12
NRC - 1st	UCT8B	NA	$640 93	$632 36	$633 94	NA	NA	NA	NA	$634 31
NRC - Add'l	UCT8B	NA	$315 03	$310 82	$311 60	NA	NA	NA	NA	$311 78
TR303 - System A (96 channel capacity - channels 1-96), per month			$835 72	$764 42	$799 95	NA	NA	NA	NA	$726 87
NRC - 1st	UCT3A	NA	$640 93	$632 36	$633 94	NA	NA	NA	NA	$634 31
NRC - Add'l	UCT3A	NA	$315 03	$310 82	$311 60	NA	NA	NA	NA	$311 78
TR303 - System B (96 channel capacity - channels 97-192), per month	UCT3B	NA	$198 55	$132 54	$138 55	NA	NA	NA	NA	$145 21
NRC - 1st	UCT3B	NA	$640 93	$632 36	$633 94	NA	NA	NA	NA	$634 31
NRC - Add'l	UCT3B	NA	$315 03	$310 82	$311 60	NA	NA	NA	NA	$311 78

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
DS1 Feeder Interface, per month	UCTFS	NA	$78 43	$72 12	$77 02	NA	NA	NA	NA	$76 73
NRC 1st	UCTFS	NA	$422 74	$425 74	$418 13	NA	NA	NA	NA	$418 37
NRC Add'l	UCTFS	NA	$200 74	$198 06	$198 56	NA	NA	NA	NA	$198 67
Channel Interface - 2 Wire Voice - Loop Start , per month	TBD	NA	$2 62	$2 38	$2 68	NA	NA	NA	NA	$2 61
NRC 1st	TBD	NA	$42 39	$41 82	$41 92	NA	NA	NA	NA	$41 95
NRC Add'l	TBD	NA	$42 15	$41 58	$41 69	NA	NA	NA	NA	$41 71
Channel Interface - 2 Wire ISDN, per month	ULCC1	NA	$10 49	$9 53	$10 72	NA	NA	NA	NA	$10 43
NRC 1st	ULCC1	NA	$42 39	$41 82	$41 92	NA	NA	NA	NA	$41 95
NRC Add'l	ULCC1	NA	$42 15	$41 58	$41 69	NA	NA	NA	NA	$41 71
Channel Interface - 2 Wire Voice - Ground Start or Reverse Battery, per month	TBD	NA	$15 59	$14 17	$15 94	NA	NA	NA	NA	$15 51
NRC 1st	TBD	NA	$42 39	$41 82	$41 92	NA	NA	NA	NA	$41 95
NRC Add'l	TBD	NA	$42 15	$41 58	$41 69	NA	NA	NA	NA	$41 71
Channel Interface - 4 Wire Voice, per month	ULCC4	NA	$9 30	$8 45	$9 50	NA	NA	NA	NA	$9 26
NRC 1st	ULCC4	NA	$42 39	$41 82	$41 92	NA	NA	NA	NA	$41 95
NRC Add'l	ULCC4	NA	$42 15	$41 58	$41 69	NA	NA	NA	NA	$41 71
Test Split, per month		NA	$45 46	$41 30	$46 44	NA	NA	NA	NA	$45 22
NRC 1st	UCTTC	NA	$42 39	$41 82	$41 92	NA	NA	NA	NA	$41 95
NRC Add'l	UCTTC	NA	$42 15	$41 58	$41 69	NA	NA	NA	NA	$41 71
Channel Interface - Digital 56Kbps, per month	ULCC5	NA	$13 78	$12 51	$14 08	NA	NA	NA	NA	$13 71
NRC 1st	ULCC5	NA	$42 39	$41 82	$41 92	NA	NA	NA	NA	$41 95
NRC Add'l	ULCC5	NA	$42 15	$41 58	$41 69	NA	NA	NA	NA	$41 71
Channel Interface - Digital 64Kbps, per month	ULCC6	NA	$13 78	$12 51	$14 08	NA	NA	NA	NA	$13 71
NRC 1st	ULCC6	NA	$42 39	$41 82	$41 92	NA	NA	NA	NA	$41 95
NRC Add'l	ULCC6	NA	$42 15	$41 58	$41 69	NA	NA	NA	NA	$41 71
Loop Concentration System (Inside C.O.)										
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	TBD	$18 94	TBD	$18 14	$25 52	TBD	$44 06	TBD
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	TBD	$8 42	TBD	$8 06	$11 34	TBD	$13 55	TBD
Loop Channelization System - Digital Loop Carrier	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Loop Channelization System - Digital Loop Carrier	TBD	NA	NA	NA	NA	NA	NA	$315 61	NA	NA
NRC- 1st	TBD	NA	NA	NA	NA	NA	NA	$426 48	NA	NA
NRC- Add'l	TBD	NA	NA	NA	NA	NA	NA	$103 42	NA	NA
NRC- Incremental Cost - Manaul Service Order- 1st	TBD	NA	NA	NA	NA	NA	NA	$42 19	NA	NA
NRC- Incremental Cost - Manaul Service Order- Add'l	TBD	NA	NA	NA	NA	NA	NA	$12 76	NA	NA
TR008 -System A (96 channel capacity - channels 1-96), per month	UCT8A	$327 44	$400 33	$316 63	$394 00	$308 74	$454 79	$375 96	$399 21	$380 06
NRC - 1st	UCT8A	$1,115 10	$1,128 75	$1,111 95	$1,116 15	$1,117 20	$1,115 10	$1,113 00	$1,119 30	$1,114 05
NRC - Add'l	UCT8A	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR008 -System B (96 channel capacity - channels 97-192), per month	UCT8B	$67 41	$70 48	$65 27	$72 21	$76 58	$73 30	$65 98	$71 91	$68 71
NRC - 1st	UCT8B	$464 57	$470 41	$463 37	$465 11	$465 64	$464 71	$463 74	$466 38	$464 21
NRC - Add'l	UCT8B	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR303 - System A (96 channel capacity - channels 1-96), per month	UCT3A	$375 18	$450 24	$362 87	$445 14	$385 97	$506 70	$422 68	$450 13	$428 73
NRC - 1st	UCT3A	$1,115 10	$1,128 75	$1,111 95	$1,116 15	$1,117 20	$1,115 10	$1,113 00	$1,119 30	$1,114 05
NRC - Add'l	UCT3A	NA	NA	NA	NA	NA	NA	NA	NA	NA
TR303 - System B (96 channel capacity - channels 97-192), per month	UCT3B	$111 30	$118 76	$110 02	$121 45	$129 05	$123 52	$111 17	$121 16	$115 79
NRC - 1st	UCT3B	$464 57	$470 41	$463 37	$465 11	$465 64	$464 71	$463 74	$466 38	$464 21
NRC - Add'l	UCT3B	NA	NA	NA	NA	NA	NA	NA	NA	NA
DS1 Interface, per month	UCTCO	$6 42	$6 47	$6 15	$403 20	$7 35	$6 99	$6 27	$6 79	$6 49
NRC 1st	UCTCO	$367 70	$372 32	$366 72	$132 18	$368 54	$367 80	$367 04	$369 13	$367 41
NRC Add'l	UCTCO	$132 03	$133 69	$130 63	$132 18	$132 33	$132 07	$131 79	$132 54	$131 92
Channel Interface - 2 Wire Voice - Loop Start , per month	TBD	$2 55	$2 66	$2 44	$2 79	$2 91	$2 77	$0 89	$2 69	$2 58
NRC 1st	TBD	$35 77	$36 23	$35 68	$35 82	$35 86	$35 78	$35 73	$35 91	$35 74
NRC Add'l	TBD	$35 55	$36 02	$35 48	$35 62	$35 66	$35 37	$35 49	$35 71	$35 54
Channel Interface - 2 Wire ISDN, per month	ULCC1	$10 19	$10 67	$9 76	$11 18	$11 66	$11 10	$9 95	$10 76	$10 10
NRC 1st	ULCC1	$35 77	$36 23	$35 68	$35 82	$35 86	$35 78	$35 71	$35 91	$35 74

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC Add'l	ULCC1	$35.55	$36.02	$35.48	$35.62	$35.66	$35.37	$35.51	$35.71	$35.54
Channel Interface - 2 Wire Voice - Ground Start or Reverse Battery, per month	TBD	$15.15	$15.85	$14.51	$16.62	$17.33	$16.46	$14.80	$16.01	$15.12
NRC 1st	TBD	$35.77	$36.23	$35.68	$35.82	$35.86	$35.78	$35.71	$35.91	$35.74
NRC Add'l	TBD	$35.55	$36.02	$35.48	$35.62	$35.66	$35.37	$35.51	$35.71	$35.54
Channel Interface - 4 Wire Voice, per month	ULCC4	$9.04	$9.44	$8.65	$9.91	$10.34	$9.83	$8.82	$9.55	$9.13
NRC 1st	ULCC4	$35.77	$36.23	$35.68	$35.82	$35.86	$35.78	$35.71	$35.91	$35.74
NRC Add'l	ULCC4	$35.55	$36.02	$35.48	$35.62	$35.66	$35.37	$35.51	$35.71	$35.54
Test Circuit, per month	UCTTC	$44.16	$48.14	$42.30	$48.43	$50.53	$47.85	$43.13	$46.66	$44.65
NRC 1st	UCTTC	$35.77	$36.23	$35.68	$35.82	$35.86	$35.78	$35.71	$35.91	$35.74
NRC Add'l	UCTTC	$35.55	$36.02	$35.48	$35.62	$35.66	$35.37	$35.51	$35.71	$35.54
Channel Interface - Digital 56Kbps, per month	ULCC5	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
NRC 1st	ULCC5	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
NRC Add'l	ULCC5	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Channel Interface - Digital 64Kbps, per month	ULCC6	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
NRC 1st	ULCC6	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
NRC Add'l	ULCC6	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
DARK FIBER										
Per [illegible] strands, per route mile or fraction thereof, per month	1L5DF	$59.84	$55.35	$44.22	$64.64	$65.29	$70.35	$49.88	$72.45	$52.67
Per each four-fiber dark fiber arrangement - 1st	1L5DF	$2,518.66	$1,715.61	$1,355.29	$2,304.00	$1,685.19	$2,389.99	$2,277.00	$2,406.00	$1,672.44
Per each four-fiber dark fiber arrangement - Add'l	1L5DF	$835.08	$622.68	$273.69	$740.93	$580.11	$804.32	$733.08	$765.30	$509.09
NOTES:										
1 In states where a specific NRC for customer transfer, feature additions and changes is not stated, the applicable NRC from the appropriate tariff applies.										
2 Deaveraged Loop Rates by Zone will be available effective May 1, 2000. The status of rates shown by state is as follows:										
Alabama - Proposed rates.										
Florida - Interim rates established in Joint Stipulation and signed by parties in December, 1999; Docket No. 990649-TP. These rates will be replaced by permanent rates in October, 2000.										
Georgia - Rates established in Joint Stipulation and signed by parties in December, 2000; Docket Nos. 5825-U, 7061-U, and 10692-U.										
Kentucky - Rates established in Joint Stipulation and signed by parties in January, 2000; Admin. Case No. 382.										
Louisiana - Proposed rates.										
Mississippi - Proposed rates.										
North Carolina - To be decided.										
South Carolina - Proposed rates.										
Tennessee - Proposed rates.										
3 All rates are interim and subject to true-up.										

BELLSOUTH/GLOBAL CROSSING RATES NETWORK ELEMENTS
AND OTHER SERVICES
PORTS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
LOCAL EXCHANGE SWITCHING (PORT)										
2-Wire Analog Line Port (Res., Bus.), per month										
2- wire voice unbundled port - residence	UEPRL	$2 07	2 00 - Note	1 85 - Note	2 61 - Note	$2 20	$2 11	$2 19	$2 35	1 90 Note 1
2-wire voice unbundled port with caller ID - residence	UEPRC	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-wire voice unbundled port outgoing only - residence	UEPRO	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-wire voice unbundled area plus port with caller ID - residence	UEPRM	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-wire voice unbundled Florida area calling with caller ID - residence	UEPAF	NA	$2 00	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Louisiana Area Plus with caller ID - residence (RUL)	UEPAG	NA	NA	NA	NA	$2 20	NA	NA	NA	NA
2-wire voice unbundled Louisiana Area Plus with caller ID - residence (AC7)	UEPAH	NA	NA	NA	NA	$2 20	NA	NA	NA	NA
2-wire voice unbundled South Carolina Area Calling port with Caller ID -	UEPAJ	NA	NA	NA	NA	NA	NA	NA	$2 35	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence	UEPAK	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence	UEPAL	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence	UEPAM	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence	UEPAN	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence	UEPAO	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-wire voice unbundled res, low usage line port with Caller ID (LUM)	UEPAP	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
LOCAL NUMBER PORTABILITY (REQUIRES ONE PER PORT)	LNPCX									
2-wire voice unbundled port without Caller ID	UEPBL	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-wire voice unbundled port with unbundled port with Caller+E484 ID	UEPBC	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-wire voice unbundled outgoing only port	UEPBO	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-wire voice unbundled area plus port with Caller ID	UEPBM	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-wire voice unbundled incoming only port with Caller ID	UEPB1	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-wire voice unbundled LA Bus Area Calling Port with Caller ID (BUC)	UEPAA	NA	NA	NA	NA	$2 20	NA	NA	NA	NA
2-wire voice unbundled SC Bus Area Calling Port with Caller ID (LMB)	UEPAB	NA	NA	NA	NA	NA	NA	NA	$2 35	NA
2-wire voice unbundled TN Bus 2-Way Area Calling Port Economy Option (AC1)	UEPAC	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-wire voice unbundled TN Bus 2-Way Area Calling Port Standard Option (AC2)	UEPAD	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-wire voice unbundled TN Bus 2-WAY Collierville and Memphis Local Calling (92F)	UEPAE	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-w										
LOCAL NUMBER PORTABILITY (REQUIRES ONE PER PORT)	LNPCX									
Non-Recurring Charges (NRC) - 1st (Residence)										
2- wire voice unbundled port - residence	UEPRL	$21 93	$38 00	$17 16	$37 78	$16 43	$22 98	$21 60	$24 98	BST GSST A4 3 2
2-wire voice unbundled port with caller ID - residence	UEPRC	$21 93	$38 00	$17 16	$37 78	$16 43	$22 98	$24 04	$24 98	BST GSST A4 3 3
2-wire voice unbundled port outgoing only - residence	UEPRO	$21 93	$38 00	$17 16	$37 78	$16 43	$22 98	$24 04	$24 98	BST GSST A4 3 4
2-wire voice unbundled area plus port with caller ID - residence	UEPRM	$21 93	$38 00	$17 16	$37 78	$16 43	$22 98	$24 04	$24 98	BST GSST A4 3 5
2-wire voice unbundled Florida area calling with caller ID - residence	UEPAF	NA	$38 00	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Louisiana Area Plus with caller ID - residence (RUL)	UEPAG	NA	NA	NA	NA	$16 43	NA	NA	NA	NA
2-wire voice unbundled Louisiana Area Plus with caller ID - residence (AC7)	UEPAH	NA	NA	NA	NA	$16 43	NA	NA	NA	NA
2-wire voice unbundled South Carolina Area Calling port with Caller ID - residence (LW8)	UEPAJ	NA	NA	NA	NA	NA	NA	NA	$24 98	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence (F2R)	UEPAK	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 10
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence (TACER)	UEPAL	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 11
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence (TACSR)	UEPAM	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 12

BELLSOUTH/GLOBAL CROSSING RATES NETWORK ELEMENTS
AND OTHER SERVICES
PORTS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence (1MF2X)	UEPAN	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 13
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence (2MR)	UEPAO	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 14
2-wire voice unbundled Res Low Usage Line Port with Caller+E563 ID (LUM)	UEPAP	$21 93	$38 00	$17 16	$37 78	$16 43	$22 98	$24 04	$24 98	BST GSST A4 3 15
NRC - Add'l (Residence)										
2- wire voice unbundled port - residence -	UEPRL	$21 93	$15.00	$17 16	$37 78	$16 43	$22 98	$21 60	$24 98	BST GSST A4 3 3
2-wire voice unbundled port with caller ID - residence	UEPRC	$21.93	$15.00	$17 16	$37 78	$16 43	$22 98	$9 08	$24 98	BST GSST A4 3 4
2-wire voice unbundled port outgoing only - residence	UEPRO	$21 93	$15.00	$17 16	$37 78	$16 43	$22 98	$9 08	$24 98	BST GSST A4 3 5
2-wire voice unbundled area plus port with caller ID - residence	UEPRM	$21 93	$15.00	$17 16	$37 78	$16 43	$22 98	$9 08	$24 98	BST GSST A4 3 6
2-wire voice unbundled Florida area calling with caller ID - residence	UEPAF	NA	$15.00	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Louisiana Area Plus with caller ID - residence (RUL)	UEPAG	NA	NA	NA	NA	$16 43	NA	NA	NA	NA
2-wire voice unbundled Louisiana Area Plus with caller ID - residence (AC7)	UEPAH	NA	NA	NA	NA	$16 43	NA	NA	NA	NA
2-wire voice unbundled South Carolina Area Calling port with Caller ID - residence (LW6)	UEPAJ	NA	NA	NA	NA	NA	NA	NA	$24 98	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence (F2R)	UEPAK	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 11
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence (TACER)	UEPAL	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 12
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence (TACSR)	UEPAM	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 13
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence (1MF2X)	UEPAN	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 14
[illegible] voice unbundled Tennessee Area Calling port with Caller ID - residence [illegible]	UEPAO	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 15
[illegible]oice unbundled Res Low Usage Line Port with Caller ID (LUM)	UEPAP	$21 93	$15.00	$17 16	$37 78	$16 43	$22 98	$9 08	$24 98	BST GSST A4 3 16
1st (Business)										
[illegible]re Voice Unbundled Port without Caller ID	UEPBL	$21.93	$38 00	$17 16	$37 55	$16 43	$22 98	$21 60	$24 98	BST GSST A4 3 4
2-wire voice unbundled port with Caller ID	UEPBC	$21 93	$38 00	$17 16	$37 55	$16 43	$22 98	$24 04	$24 98	BST GSST A4 3 5
2-wire voice unbundled outgoing only port	UEPBO	$21 93	$38 00	$17 16	$37 55	$16 43	$22 98	$24 04	$24 98	BST GSST A4 3 6
2-wire voice unbundled Area Plus Port with Caller ID	UEPBM	$21.93	$38 00	$17 16	$37 55	$16 43	$22 98	$24 04	$24 98	BST GSST A4 3 7
2-wire voice unbundled Incoming only Port with Caller ID	UEPB1	$21 93	$38 00	$17 16	$37 55	$16 43	$22 98	$24 04	$24 98	BST GSST A4 3 8
2-wire voice unbundled LA Bus Area Calling Port with Caller ID (BUC)	UEPAA	NA	NA	NA	NA	$16 43	NA	NA	NA	NA
2-wire voice unbundled SC Bus Area Calling Port with Caller ID+E587 (LMB)	UEPAB	NA	NA	NA	NA	NA	NA	NA	$24 98	NA
2-wire voice unbundled TN Bus 2-way Area Calling Port Economy Option (TACC1)	UEPAC	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 11
2-wire voice unbundled TN Bus 2-way Area Calling Port Standard Option (TACC2)	UEPAD	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 12
2-wire voice unbundled TN Bus 2-way Collierville and Memphis Local Calling Port (B2F)	UEPAE	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 13

BELLSOUTH/GLOBAL CROSSING RATES NETWORK ELEMENTS
AND OTHER SERVICES
PORTS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - Add'l (Business)	UEPBL	$21 93	$15.00	$17.16	$37 55	$16 43	$22 98	$9 08	$24 98	BST GSST
2-wire voice unbundled port without Caller ID	UEPBL	$21 93	$15 00	$17 16	$37 55	$16 43	$22 98	$21 60	$24 98	BST GSST A4 3 5
2-wire voice unbundled port with Caller ID	UEPBC	$21 93	$15 00	$17 16	$37 55	$16 43	$22 98	$9 08	$24 98	BST GSST A4 3 6
2-wire voice unbundled outgoing only port	UEPBO	$21 93	$15 00	$17 16	$37 55	$16 43	$22 98	$9 08	$24 98	BST GSST A4 3 7
2-wire voice unbundled Area Plus Port with Caller ID	UEPBM	$21.93	$15.00	$17 16	$37 55	$16 43	$22 98	$9 08	$24 98	BST GSST A4 3 8
2-wire voice unbundled incoming only port with Caller ID	UEPB1	$21.93	$15.00	$17 16	$37.55	$16 43	$22 98	$9 08	$24 98	BST GSST A4 3 9
2-wire voice unbundled LA Bus Area Calling Port with Caller ID (BUC)	UEPAA	NA	NA	NA	NA	$16 43	NA	NA	NA	NA
2-wire voice unbundled SC Bus Area Calling Port with Caller ID (LMB)	UEPAB	NA	NA	NA	NA	NA	NA	NA	$24 98	NA
2-wire voice unbundled TN Bus 2-way Area Calling Port Economy Option (TACC1)	UEPAC	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 12
2-wire voice unbundled TN Bus 2-way Area Calling Port Standard Option (TACC2)	UEPAD	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 13
2-wire voice unbundled TN Bus 2-way Collierville and Memphis Locall Calling Port (B2F)	UEPAE	NA	NA	NA	NA	NA	NA	NA	NA	BST GSST A4 3 14
NRC - Disconnect Charge - 1st										
2- wire voice unbundled port - residence		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled port with caller ID - residence		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled port outgoing only - residence		$6.21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled area plus port with caller ID - residence		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled Florida area calling with caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Louisiana Area Plus with caller ID - residence (RUL)		NA	NA	NA	NA	$4 38	NA	NA	NA	NA
2-wire voice unbundled Louisiana Area Plus with caller ID - residence (AC7)		NA	NA	NA	NA	$4 38	NA	NA	NA	NA
2-wire voice unbundled South Carolina Area Calling port with Caller ID -		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Res Low Usage Line Port with Caller ID (LUM)		$6.21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled port without Caller ID		$6.21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled port with Caller ID		$6.21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled outgoing only Port		$6.21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled Area Plus Port with Caller ID		$6.21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled incoming only Port with Caller ID		$6.21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled LA Bus Area Calling Port with Caller ID (BUC)		NA	NA	NA	NA	$4 38	NA	NA	NA	NA
2-wire voice unbundles SC Bus Area Calling Port with Caller ID (LMB)		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled TN Bus 2-way Area Calling Port Economy Option		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled TN Bus 2-way Area Calling Port Standard Option		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled TN Bus 2-Way Collierville and Memphis Local Calling		NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Disconnect Charge - A dd'l										
2- wire voice unbundled port - residence		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled port with caller ID - residence		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled port outgoing only - residence		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled area plus port with caller ID - residence		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled Florida area calling with caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Louisiana Area Plus with caller ID - residence (RUL)		NA	NA	NA	NA	$4 38	NA	NA	NA	NA
2-wire voice unbundled Louisiana Area Plus with caller ID - residence (AC7)		NA	NA	NA	NA	$4 38	NA	NA	NA	NA

BELLSOUTH/GLOBAL CROSSING RATES NETWORK ELEMENTS
AND OTHER SERVICES
PORTS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
2-wire voice unbundled South Carolina Area Calling port with Caller ID -		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled Tennessee Area Calling port with Caller ID - residence		NA	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled Res Low Usage Line Port with Caller ID (LUM)		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled port without Caller ID		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled port with Caler ID		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled outgoing only port		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled Area Plus Port with Caller ID		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled incoming only port with Caller ID		$6 21	NA	NA	NA	$4 38	$6 56	NA	NA	NA
2-wire voice unbundled LA Bus Area Calling Port with Caller ID (BUC)		NA	NA	NA	NA	$4 38	NA	NA	NA	NA
2-wire voice unbundled SC Bus Area Calling Port with Caller ID (LMB)		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled TN Bus 2-way Area Calling Port Economy Option		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled TN Bus 2-way Area Calling Port Standard Option		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-wire voice unbundled TN Bus 2-way Collierville and Memphis Local Calling		NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$44 42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$12 76	$14 63	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	$10 39	$16 06	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - Add'l	SOMAN	$1.44	NA	NA	NA	NA	NA	NA	NA	NA
All available features, per month	UEPVF	$5.55	NA	NA	NA	$8 28	$6 75	NA	$6 29	NA
NRC - 1st (all types)		$24 72	NA	NA	NA	NA	$21 42	NA	$36 24	NA
NRC - Add'l (all types)		$24 72	NA	NA	NA	NA	$21 42	NA	$36 24	NA
NRC - Disconnect Charge - 1st		$18.41	NA	NA	NA	NA	$19 68	NA	NA	NA
NRC - Disconnect Charge - Add'l		$18.41	NA	NA	NA	NA	$19 68	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	NA	NA	NA	$25 52	NA	$44 42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	NA	NA	NA	$11 34	NA	$14 63	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	NA	$16 06	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - Add'l	SOMAN	$1.44	NA	NA	NA	NA	NA	NA	NA	NA
Three available feature, per month	UEPVF	NA	NA	NA	NA	$8 28	$3 31	NA	$3 03	NA
NRC - 1st (all types)		NA	NA	NA	NA	NA	$3 06	NA	$4 53	NA
NRC - Add'l (all types)		NA	NA	NA	NA	NA	$3 06	NA	$4 53	NA
NRC - Disconnect Charge - 1st		NA	NA	NA	NA	NA	$8 20	NA	NA	NA
NRC - Disconnect Charge - Add'l		NA	NA	NA	NA	NA	$8 20	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	NA	NA	NA	$25 52	NA	$44 42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	NA	NA	NA	$11 34	NA	$14 63	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	NA	NA	NA	NA	NA	$16 06	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - Add'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Wire Analog VG Port, per month	UEP4A	NA	$9 14	$8 47	NA	$10 13	$9 60	$8 69	$2 28	NA
NRC - 1st	UEP4A	NA	$5 86	$17 16	NA	$16 43	$22 98	$21 60	$3 50	NA
NRC - Add'l	UEP4A	NA	$5 86	$17 16	NA	$16 43	$22 98	$21 60	$3 50	NA
NRC - Disconnect Charge - 1st	BFR	NA	NA	NA	NA	$3 77	$6 56	NA	NA	NA
NRC - Disconnect Charge - Add'l	BFR	NA	NA	NA	NA	$3 77	$6 56	NA	NA	NA
[illegible] - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	$18 94	NA	$18 14	$25 52	$26 94	NA	NA
[illegible] - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	$8 42	NA	$8 06	$11 34	$12 76	NA	NA
[illegible] - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	NA	NA	NA	NA	$8 94	$16 06	NA	NA	NA
[illegible] Port, per month	UEPP2	$12 08	TBD	$11 35	NA	$13 12	$14 63	$12 36	$12 08	$12 08 BST GSST A4 3 1
NRC - 1st	UEPP2	$50 00	TBD	$61 91	NA	$59 28	$83 09	$81 84	$50 00	BST GSST A4 3 1
NRC - Add'l	UEPP2	$18 00	TBD	$61 91	NA	$59 28	$83 09	$81 84	$50 00	

BELLSOUTH/GLOBAL CROSSING RATES NETWORK ELEMENTS
AND OTHER SERVICES
PORTS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - Disconnect Charge - 1st	UEPP2	NA	NA	NA	NA	$9 20	$13 48	NA	NA	NA
NRC - Disconnect Charge - Add'l	UEPP2	NA	NA	NA	NA	$9 20	$13 48	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	$18 94	NA	$18 14	$25 52	$26 94	NA	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	$8 42	NA	$8 06	$11 34	$12 76	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	NA	NA	NA	NA	$10 39	$16 07	NA	NA	NA
4-Wire DS1 Port w/DID capability, per month	UEPDD	$130 23	$125 00	$120 80	NA	$149 27	$146 46	$123 65	$130 23	$120 00
NRC - 1st	UEPDD	$50 00	$112 00	$89 44	NA	$85 63	$117 81	$116 59	$60 00	To be negotiated
NRC - Add'l	UEPDD	$18 00	$91 00	$52 46	NA	$50 23	$71 18	$69 92	$60 00	To be negotiated
NRC - Disconnect Charge - 1st	UEPDD	NA	NA	NA	NA	$8 82	$12 94	NA	NA	NA
NRC - Disconnect Charge - Add'l	SOMAN	NA	NA	NA	NA	$8 82	$12 94	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	$18 94	NA	$18 14	$25 52	$26 94	NA	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	$8 42	NA	$8 06	$11 34	$12 76	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	NA	NA	NA	NA	$10 39	$16 06	NA	NA	NA
2-Wire ISDN Port(2) (3), per month	U1PMA	$16 42	$13 00	$13 47	$12 33	$23 33	$51 91	$24 50	$33 74	$1 90
NRC - 1st	U1PMA	$63 24	$88 00	$47 37	$90 48	$45 35	$63 59	$62 29	$65 79	BST GSST A4 3 1
NRC - Add'l	U1PMA	$63 24	$66 00	$47 37	$84 53	$45 35	$63 59	$62 29	$65 79	BST GSST A4 3 1
NRC - Disconnect Charge - 1st	U1PMA	$5 69	NA	NA	NA	$4 31	$7 04	NA	NA	NA
NRC - Disconnect Charge - Add'l	U1PMA	$5 69	NA	NA	NA	$4 31	$7 04	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$56 19	NA	$39 98	NA	$38 29	$53 87	$55 30	$67 52	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$56 19	NA	$39 98	NA	$38 29	$53 87	$55 30	$67 52	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$12 97	NA	NA	NA	$6 65	$11 34	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - Add'l	SOMAN	$12 97	NA	NA	NA	$6 65	$11 34	NA	NA	NA
NRC - User Profile per B Channel (4)	U1UMA	NA	NA	NA	$5 61	NA	NA	NA	NA	NA
2-Wire ISDN Port(2) (3) including all available features, per month	U1PMA	NA	NA	NA	NA	NA	NA	NA	$38 68	NA
NRC - 1st	U1PMA	NA	NA	NA	NA	NA	NA	NA	$106 40	NA
NRC - Add'l	U1PMA	NA	NA	NA	NA	NA	NA	NA	$106 40	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	NA	NA	NA	NA	NA	$67 52	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	$67 52	NA
2-Wire ISDN Port(2) (3) including three available features, per month	U1PMA	NA	NA	NA	NA	NA	NA	NA	$36 01	NA
NRC - 1st	U1PMA	NA	NA	NA	NA	NA	NA	NA	$70 32	NA
NRC - Add'l	U1PMA	NA	NA	NA	NA	NA	NA	NA	$70 32	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	NA	NA	NA	NA	NA	$67 52	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	$67 52	NA
4-Wire ISDN DS1 Port, per month	UEPEX	$186 02	NA	$163 16	NA	$194 72	$213 21	$179 75	$214 79	$308 00
NRC - 1st	UEPEX	$244 85	NA	$186 80	NA	$181 89	$244 12	$241 63	$278 37	To be negotiated
NRC - Add'l	UEPEX	$244 85	NA	$186 80	NA	$181 89	$244 12	$241 63	$278 37	To be negotiated
NRC - Disconnect Charge - 1st	UEPEX	$51 19	NA	NA	NA	$27 11	$53 32	NA	NA	NA
NRC - Disconnect Charge - Add'l	UEPEX	$51 19	NA	NA	NA	$27 11	$53 32	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$54 75	NA	$37 88	NA	$33 18	$51 03	$53 89	$65 48	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$54 75	NA	$37 88	NA	$33 18	$51 03	$53 89	$65 48	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$11 53	NA	NA	NA	$7 73	$8 51	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - Add'l	SOMAN	$11 53	NA	NA	NA	$7 73	$8 51	NA	NA	NA
4-Wire ISDN DS1 Port including all available features, per month	UEPEX	NA	NA	NA	$275 48	NA	NA	NA	$251 00	NA
NRC - 1st	UEPEX	NA	NA	NA	$161 27	NA	NA	NA	$311 73	NA
NRC - Add'l	UEPEX	NA	NA	NA	$116 42	NA	NA	NA	$311 73	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	NA	NA	NA	NA	NA	$65 48	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	$65 48	NA
2-Wire Analog Line Port (PBX), per month										
2 WIRE VOICE UNBUNDLED COMBINATION 2-WAY PBX TRUNK - Residenc	UEPRD	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 18	$2 35	$1 90

BELLSOUTH/GLOBAL CROSSING RATES NETWORK ELEMENTS
AND OTHER SERVICES
PORTS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
LINE SIDE UNBUNDLED COM BINATION 2-WAY PBX TRUNK - BUSINESS	UEPPC	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
LINE SIDE UNBUNDLED OUT WARD PBX TRUNK - BUSINESS	UEPPO	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
LINE SIDE UNBUNDLED INCOM ING PBX TRUNK - BUSINESS	UEPP1	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
LONG DISTANCE TERMINAL PBX TRUNK-BUSINESS	UEPLD	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
TN 2-WAY CALLING PLAN PBX TRUNK - BUSINESS	UEPT2	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
TN OUTWARD CALLING PLAN PBX TRUNK - BUSINESS	UEPTO	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX ALABAMA	UEPA2	$2 07	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX LOUISIANA	UEPL2	NA	NA	NA	NA	$2 20	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL PORTS	UEPLD	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX TENNESSEE	UEPT2	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX TENNESSEE	UEPTO	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX USAGE PORT	UEPXA	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED PBX TOLL TERMINAL HOTEL PORTS	UEPXB	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED PBX LD DDD TERMINALS PORT	UEPXC	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL SWITCHBOARD PORT	UEPXD	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL SWITCHBOARD IDD	UEPXE	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED 2-W AY PBX KENTUCKY ROOM AREA CALLING PORT WITHOUT LUD	UEPXF	NA	NA	NA	$2 61	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX KENTUCKY LUD AREA CALLING PORT	UEPXG	NA	NA	NA	$2 61	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX KENTUCKY PREMIUM CALLING PORT	UEPXH	NA	NA	NA	$2 61	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY KENTUCKY AREA CALLING PORT WITHOUT LUD	UEPXJ	NA	NA	NA	$2 61	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX LOUISIANA LOCAL OPT IONAL CALLING PORT	UEPXK	NA	NA	NA	NA	$2 20	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX HOTEL/HOSPITAL ECONOMY ADMINISTRATIVE CALLING PORT	UEPXL	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED 2-W AY PBX HOTEL/HOSPITAL ECONOMY ROOM CALLING PORT	URPXM	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX HOTEL/HOSPITAL ECONOMY ADMINIATRATIVE CALLING PORT TENNESSEE CALLING PORT	UEPXN	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX HOTEL/HOSPITAL DIACOUNT ROOM CALLING PORT	UEPXO	$2 07	$2 00	$1 85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX LOUISIANA LOCAL DISCOUNT CALLING PORT	UEPXP	NA	NA	NA	NA	$2 20	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX MISSISSIPPI LOCAL ECONOM Y CALLING PORT	UEPXQ	NA	NA	NA	NA	NA	$2 11	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX MISSISSIPPI LOCAL OPT IONAL CALLING PORT	UEPXR	NA	NA	NA	NA	NA	$2 11	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBXMEASURED PORT	UEPXS	$2.07	$2.00	$1.85	$2 61	$2 20	$2 11	$2 00	$2 35	$1 90
2-WIRE VOICE UNBUNDLED 2-W AY PBX SOUTH CAROLINA AREA PLUS CALLING PORT	UEPXT	NA	NA	NA	NA	NA	NA	NA	$2 35	NA
2-WIRE VOICE UNBUNDLED PBX COLLIERVILLE & M EMPHIS CALLING PORT	UEPXU	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
2-WIRE VOICE UNBUNDLED 2-W AY PBX TENNESSEE REGIONSERV CALLING PORT	UEPXV	NA	NA	NA	NA	NA	NA	NA	NA	$1 90
UNBUNDLED LOOP BILLING USOC (REQUIRES ONE PER PORT)	UEPLX									
LOCAL NUM BER PORTABILITY (REQUIRES ONE PER PORT)	LNPCP									
NRC - 1st	UEPPC	$21 93	$38 00	$17 16	$36 47	$16 43	$22 98	$24 04	$24 36	NA
2 WIRE VOICE UNBUNDLED COM BINATION 2-WAY PBX TRUNK - Residenc	UEPRD	$21 93	$38 00	$17 16	$36 47	$16 43	$22 98	$21 60	$24 36	NA
LINE SIDE UNBUNDLED COM BINATION 2-WAY PBX TRUNK - BUSINESS	UEPPC	$21 93	$38 00	$17 16	$36 47	$16 43	$22 98	$24 04	$24 36	NA
LINE SIDE UNBUNDLED OUT WARD PBX TRUNK - BUSINESS	UEPPO	$21 93	$38 00	$17 16	$36 47	$16 43	$22 98	$24 04	$24 36	NA
LINE SIDE UNBUNDLED INCOM ING PBX TRUNK - BUSINESS	UEPP1	$21 93	$38 00	$17 16	$36 47	$16 43	$22 98	$24 04	$24 36	NA

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
LONG DISTANCE TERMINAL PBX TRUNK-BUSINESS	UEPLD	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
TN 2-WAY CALLING PLAN PBX TRUNK - BUSINESS	UEPT2	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
TN OUTWARD CALLING PLAN PBX TRUNK - BUSINESS	UEPTO	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX ALABAMA CALLING PORT	UEPA2	$21.93	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX LOUISIANA CALLING PORT	UEPL2	NA	NA	NA	NA	$16.43	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL PORTS	UEPLD	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX TENNESSEE	UEPT2	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX TENNESSEE CALLING PORT	UEPTO	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX USAGE PORT	UEPXA	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED PBX TOLL TERMINAL HOTEL PORTS	UEPXB	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED PBX LD DDD TERMINALS PORT	UEPXC	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL SWITCHBOARD PORT	UEPXD	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL SWITCHBOARD IDD CAPABLE PORT	UEPXE	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX KENTUCKY ROOM AREA CALLING PORT WITHOUT LUD	UEPXF	NA	NA	NA	$36.47	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX KENTUCKY LUD AREA CALLING PORT	UEPXG	NA	NA	NA	$36.47	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX KENTUCKY PREMIUM CALLING PORT	UEPXH	NA	NA	NA	$36.47	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY KENTUCKY AREA CALLING PORT WITHOUT LUD	UEPXJ	NA	NA	NA	$36.47	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX LOUISIANA LOCAL OPT IONAL CALLING PORT	UEPXK	NA	NA	NA	NA	$16.43	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX HOTEL/HOSPITAL ECONOMY ADMINISTRATIVE CALLING PORT	UEPXL	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX HOTEL/HOSPITAL ECONOMY ROOM CALLING PORT	URPXM	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX HOTEL/HOSPITAL ECONOMY ADMINIATRATIVE CALLING PORT TENNESSEE CALLING PORT	UEPXN	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX HOTEL/HOSPITAL DIACOUNT ROOM CALLING PORT	UEPXO	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX LOUISIANA LOCAL DISCOUNT CALLING PORT	UEPXP	NA	NA	NA	NA	$16.43	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX MISSISSIPPI LOCAL ECONOM Y CALLING PORT	UEPXQ	NA	NA	NA	NA	NA	$22.98	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX MISSISSIPPI LOCAL OPT IONAL CALLING PORT	UEPXR	NA	NA	NA	NA	NA	$22.98	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBXMEASURED PORT	UEPXS	$21.93	$38.00	$17.16	$36.47	$16.43	$22.98	$24.04	$24.36	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX SOUTH CAROLINA AREA PLUS CALLING PORT	UEPXT	NA	NA	NA	NA	NA	NA	NA	$24.36	NA
2-WIRE VOICE UNBUNDLED PBX COLLIERVILLE & M EMPHIS CALLING PORT	UEPXU	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX TENNESSEE REGIONSERV CALLING PORT	UEPXV	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Add'l										
2 WIRE VOICE UNBUNDLED COM BINATION 2-WAY PBX TRUNK - Residenc	UEPRD	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$21.60	$24.36	NA
LINE SIDE UNBUNDLED COM BINATION 2-WAY PBX TRUNK - BUSINESS	UEPPC	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
LINE SIDE UNBUNDLED OUT WARD PBX TRUNK - BUSINESS	UEPPO	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
LINE SIDE UNBUNDLED INCOM ING PBX TRUNK - BUSINESS	UEPP1	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
LONG DISTANCE TERMINAL PBX TRUNK-BUSINESS	UEPLD	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
TN 2-WAY CALLING PLAN PBX TRUNK - BUSINESS	UEPT2	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA

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DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
OUTWARD CALLING PLAN PBX TRUNK - BUSINESS	UEPTO	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX ALABAMA CALLING PORT	UEPA2	$21.93	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX LOUISIANA CALLING PORT	UEPL2	NA	NA	NA	NA	$16.43	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL PORTS	UEPLD	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX TENNESSEE CALLING PORT	UEPT2	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX TENNESSEE CALLING PORT	UEPTO	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX USAGE PORT	UEPXA	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED PBX TOLL TERMINAL HOTEL PORTS	UEPXB	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED PBX LD DDD TERMINALS PORT	UEPXC	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL SWITCHBOARD PORT	UEPXD	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL SWITCHBOARD IDD CAPABLE PORT	UEPXE	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX KENTUCKY ROOM AREA CALLING PORT WITHOUT LUD	UEPXF	NA	NA	NA	$36.47	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX KENTUCKY LUD AREA CALLING PORT	UEPXG	NA	NA	NA	$37.47	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX KENTUCKY PREMIUM CALLING PORT	UEPXH	NA	NA	NA	$38.47	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY KENTUCKY AREA CALLING PORT WITHOUT LUD	UEPXJ	NA	NA	NA	$39.47	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX LOUISIANA LOCAL OPTIONAL CALLING PORT	UEPXK	NA	NA	NA	NA	$16.43	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX HOTEL/HOSPITAL ECONOMY ADMINISTRATIVE CALLING PORT	UEPXL	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX HOTEL/HOSPITAL ECONOMY ROOM CALLING PORT	URPXM	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX HOTEL/HOSPITAL ECONOMY ADMINIATRATIVE CALLING PORT TENNESSEE CALLING PORT	UEPXN	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX HOTEL/HOSPITAL DIACOUNT ROOM CALLING PORT	UEPXO	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX LOUISIANA LOCAL DISCOUNT CALLING PORT	UEPXP	NA	NA	NA	NA	$16.43	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX MISSISSIPPI LOCAL ECONOMY CALLING PORT	UEPXQ	NA	NA	NA	NA	NA	$22.98	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX MISSISSIPPI LOCAL OPTIONAL CALLING PORT	UEPXR	NA	NA	NA	NA	NA	$22.98	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX MEASURED PORT	UEPXS	$21.93	$15.00	$17.16	$36.47	$16.43	$22.98	$9.05	$24.36	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX SOUTH CAROLINA AREA PLUS CALLING PORT	UEPXT	NA	NA	NA	NA	NA	NA	NA	$24.36	NA
2-WIRE VOICE UNBUNDLED PBX COLLIERVILLE & MEMPHIS CALLING PORT	UEPXU	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX TENNESSEE REGIONSERV CALLING PORT	UEPXV	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Disconnect Charge - 1st										
2 WIRE VOICE UNBUNDLED COMBINATION 2-WAY PBX TRUNK - Residence		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
LINE SIDE UNBUNDLED COMBINATION 2-WAY PBX TRUNK - BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
LINE SIDE UNBUNDLED OUTWARD PBX TRUNK - BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
LINE SIDE UNBUNDLED INCOMING PBX TRUNK - BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
LONG DISTANCE TERMINAL PBX TRUNK-BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
TN 2-WAY CALLING PLAN PBX TRUNK - BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
TN OUTWARD CALLING PLAN PBX TRUNK - BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA

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DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX ALABAMA CALLING PORT		$6.21	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX LOUISIANA CALLING PORT		NA	NA	NA	NA	$3.77	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL PORTS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX TENNESSEE CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX TENNESSEE CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX USAGE PORT		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX TOLL TERMINAL HOTEL PORTS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD DDD TERMINALS PORT		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL SWITCHBOARD PORT		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL SWITCHBOARD IDD CAPABLE PORT		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX KENTUCKY ROOM AREA CALLING PORT WITHOUT LUD		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX KENTUCKY LUD AREA CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX KENTUCKY PREMIUM CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY KENTUCKY AREA CALLING PORT WITHOUT LUD		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX LOUISIANA LOCAL OPTIONAL CALLING PORT		NA	NA	NA	NA	$3.77	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX HOTEL/HOSPITAL ECONOMY ADMINISTRATIVE CALLING PORT		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX HOTEL/HOSPITAL ECONOMY ROOM CALLING PORT		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX HOTEL/HOSPITAL ECONOMY ADMINIATRATIVE CALLING PORT TENNESSEE CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX HOTEL/HOSPITAL DIACOUNT ROOM CALLING PORT		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX LOUISIANA LOCAL DISCOUNT CALLING PORT		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX MISSISSIPPI LOCAL ECONOMY CALLING PORT		NA	NA	NA	NA	NA	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX MISSISSIPPI LOCAL OPTIONAL CALLING PORT		NA	NA	NA	NA	NA	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX MEASURED PORT		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX SOUTH CAROLINA AREA PLUS CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX COLLIERVILLE & MEMPHIS CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX TENNESSEE REGIONSERV CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Disconnect Charge - Add'l										
2 WIRE VOICE UNBUNDLED COMBINATION 2-WAY PBX TRUNK - Residence		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
LINE SIDE UNBUNDLED COMBINATION 2-WAY PBX TRUNK - BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
LINE SIDE UNBUNDLED OUTWARD PBX TRUNK - BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
LINE SIDE UNBUNDLED INCOMING PBX TRUNK - BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
LONG DISTANCE TERMINAL PBX TRUNK-BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
TN 2-WAY CALLING PLAN PBX TRUNK - BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA
TN OUTWARD CALLING PLAN PBX TRUNK - BUSINESS		$6.21	NA	NA	NA	$3.77	$6.56	NA	NA	NA

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DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX ALABAMA CALLING PORT		$6 21	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX LOUISIANA CALLING PORT		NA	NA	NA	NA	$3 77	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL PORTS		$6.21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX TENNESSEE CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX TENNESSEE CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY COMBINATION PBX USAGE PORT		$6.21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX TOLL TERMINAL HOTEL PORTS		$6 21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD DDD TERMINALS PORT		$6 21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL SWITCHBOARD PORT		$6 21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX LD TERMINAL SWITCHBOARD IDD CALLING PORT		$6 21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX KENTUCKY ROOM AREA CALLING PORT WITHOUT LUD		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX KENTUCKY LUD AREA CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX KENTUCKY PREMIUM CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY KENTUCKY AREA CALLING PORT WITHOUT LUD		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX LOUISIANA LOCAL OPTIONAL CALLING PORT		NA	NA	NA	NA	$3 77	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX HOTEL/HOSPITAL ECONOMY ADMINISTRATIVE CALLING PORT		$6.21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX HOTEL/HOSPITAL ECONOMY ROOM CALLING PORT		$6.21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX HOTEL/HOSPITAL ECONOMY ADMINIATRATIVE CALLING PORT TENNESSEE CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX HOTEL/HOSPITAL DIACOUNT ROOM CALLING PORT		$6.21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBX LOUISIANA LOCAL DISCOUNT CALLING PORT		$6.21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX MISSISSIPPI LOCAL ECONOM Y CALLING PORT		NA	NA	NA	NA	NA	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX MISSISSIPPI LOCAL OPTIONAL CALLING PORT		NA	NA	NA	NA	NA	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 1-W AY OUTGOING PBXMEASURED PORT		$6.21	NA	NA	NA	$3 77	$6 56	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX SOUTH CAROLINA AREA PLUS CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED PBX COLLIERVILLE & M EMPHIS CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
2-WIRE VOICE UNBUNDLED 2-W AY PBX TENNESSEE REGIONSERV CALLING PORT		NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$48 54	$41 86	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$12 97	NA	$8 42	NA	$8 06	$11 34	$34 36	$14 46	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	$8 94	$16 06	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - Add'l	SOMAN	$0 48	NA	NA	NA	NA	NA	NA	NA	NA
2-Wire Analog Line Port (PBX) including all av ailable features, per m onth	UEPPC	NA	NA	NA	NA	NA	NA	NA	$8 67	NA
NRC - 1st	UEPPC	NA	NA	NA	NA	NA	NA	NA	$60 60	NA
NRC - Add'l	UEPPC	NA	NA	NA	NA	NA	NA	NA	$60 60	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	NA	NA	NA	NA	NA	$41 86	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	$14 46	NA

BELLSOUTH/GLOBAL CROSSING RATES NETWORK ELEMENTS
AND OTHER SERVICES
PORTS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
Call by Call Access, per month		$28 29	NA	NA	NA	NA	$50 89	$19 83	$0 3621	NA
NRC		$28 94	NA	NA	NA	NA	$28 61	$33 33	$33 36	NA
NRC - Disconnect		$5 22	NA	NA	NA	NA	$5 16	NA	NA	NA
Privacy Release, per month		$0 01	NA	NA	NA	NA	$0 0030	$0 0041	$0 0116	NA
NRC		$1 03	NA	NA	NA	NA	$1 02	$1 51	$1 51	NA
NRC - Disconnect		$0 55	NA	NA	NA	NA	$0 5466	NA	NA	NA
Multi Appearance Directory Number Calls, per month		$0 10	NA	NA	NA	NA	$0 1115	$0 13	$0 1048	NA
NRC		$1 03	NA	NA	NA	NA	$1 02	$1 51	$1 51	NA
NRC - Disconnect		$0 55	NA	NA	NA	NA	$0 5466	NA	NA	NA
Make Set Busy, per month		$0 01	NA	NA	NA	NA	$0 0013	$0 0020	$0 0101	NA
NRC		$1 03	NA	NA	NA	NA	$1 02	$1 51	$1 51	NA
NRC - Disconnect		$0 55	NA	NA	NA	NA	$0 5466	NA	NA	NA
Teen Service (Res. Dist. Alerting Service), per month		$0 15	NA	NA	NA	NA	$0 1071	$0 26	$0 2149	NA
NRC		$1 03	NA	NA	NA	NA	$1 02	$1 51	$1 51	NA
NRC - Disconnect		$0 55	NA	NA	NA	NA	$0 5466	NA	NA	NA
Code Restriction and Diversion, per month		$0 04	NA	NA	NA	NA	$0 0464	$0 09	$0 0708	NA
NRC		$1 03	NA	NA	NA	NA	$1 02	$1 51	$1 51	NA
NRC - Disconnect		$0 55	NA	NA	NA	NA	$0 5466	NA	NA	NA
Call Park, per month		$0 04	NA	NA	NA	NA	$0 0443	$0 09	$0 0694	NA
NRC		$1 03	NA	NA	NA	NA	$1 02	$1 51	$1 51	NA
NRC - Disconnect		$0 55	NA	NA	NA	NA	$0 5466	NA	NA	NA
Automatic Line, per month		$0 09	NA	NA	NA	NA	$0 1111	$0 14	$0 1179	NA
NRC		$1 03	NA	NA	NA	NA	$1 02	$1 51	$1 51	NA
NRC - Disconnect		$0 55	NA	NA	NA	NA	$0 5466	NA	NA	NA
2-WIRE ISDN BRI FEATURES										
Shared Primary Number-First Appr On Each Add'l Terminal	DS1FJ	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Secondary Only Dn (Shared/Non-Shared) First Appearance	LLDSF	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Shared Secondary Only Dn-First Appr On Each Add'l Term	DS1F1	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Shared Non-ISDN DN	DOE	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Privacy Release	DS1FU	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Manual Exclusion	DS1FM	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Variable-Voice Or Voice/Data	LLNCV	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Variable – Data	LLOCD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Variable – Feature Button – Voice	GJXCF	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Variable – Feature Button – Data	LLPCD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Busy Line – Voice Or Voice/Data	LLQCV	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Busy Line – Data	LLRCD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Busy Line–Prgrmmbl–Voice Or Voice/Data	M6AVA	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Busy Line – Programmable - Data	M6ADF	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Don't Answer – Voice Or Voice/Data	LLSCV	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Don't Answer – Data	LLUCD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwdng Don't Answer–Prgrmmble Voice Or Voice/Data	M6BVA	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Don't Answer – Programmable - Data	M6BDF	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Frwdng Multiple Simultaneous – Voice Or Voice/Data	M6CV5	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Forwarding Multiple Simultaneous – Data	M6CD5	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Conference, Drop, Hold And Transfer	DS1FN	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Six-Way Conference, Drop, Hold And Transfer	LLY6P	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Multi-Line Hunt Group – Voice Or Voice/Data	HTG	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Multi-Line Hunt Group – Data	HTGSD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Speed Calling	LLZSU	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Visual Message Waiting Indicator	LLAVP	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Audible Message Waiting Indicator	MWW	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Additional Call Appearance, PDN Or DN	DS1FG	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Tracing	NST	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Return	NSS	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Preferred Call Forwarding	NCE	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

BELLSOUTH/GLOBAL CROSSING RATES NETWORK ELEMENTS
AND OTHER SERVICES
PORTS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
Call Block	NSY	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Repeat Dialing	NSQ	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Per Line Blocking For Agencies/Law Enforcement	NOB	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Per Line Blocking For Non-Pub Customers	NOBNN	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Per Line Blocking For General Public	NOBPC	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Per Line Blocking For Non-Pub, And Non-Listed Customer	NOBPP	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Per Line Blocking For Non-Pub Customers	NOBNP	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Per Line Blocking For Non-Pub Customers	NOBNR	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Return Denial Of, Per Activation	BCR	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Repeat Dialing, Denial Of, Per Activation	BRD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Automatic Line/Direct Connect	M6GN9	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Make Set Busy	M6MPD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Selective Call Acceptance	M6K16	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Park/Call Retrieve	M6HP6	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Call Transfer System Exception	M6QTD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Make Set Busy – Intragroup	M6MGD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
All Customized Code Restrictions	CREX+	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Additional Listings	CLT	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Additional Listing No Rate	FLT	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Cross Reference Listing	LLT	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Non-Pub Listing No Rate	NP3	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Non-List Listing	NLT	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Non-List Listing No Rate	NLE	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Alternate Call Listing	FNA	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Manual Service Order Charge	SOMAN	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
All Selective Class Of Call Screening	SRG++	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
ISDN Message Waiting Indication-Lamp, per month		$0 01	NA	NA	NA	NA	$0 0105	$0 0107	$0 0138	NA
NRC		$1 03	NA	NA	NA	NA	$1 02	$1 47	$1 47	NA
NRC - Disconnect		$0 55	NA	NA	NA	NA	$0 5466	NA	NA	NA
ISDN Feature Function Buttons		NA	NA	NA	NA	NA	NA	NA		
NRC		$1 03	NA	NA	NA	NA	$1 02	$1 51	$1 51	NA
NRC - Disconnect		$0 55	NA	NA	NA	NA	$0 5466	NA	NA	NA
Subsequent Ordering Charge – (per order, per line)		NA	NA	NA	NA	NA	NA	NA		
NRC - Electronic - 1st		$2 88	NA	NA	NA	NA	$2 84	$5 42	$1 36	NA
NRC - Electronic - Add'l		$0 96	NA	NA	NA	NA	$0 95	$0 95	$0 71	NA
NRC - Manual - 1st		$4 80	NA	NA	NA	NA	$4 73	$1 89	$7 35	NA
NRC - Manual - Add'l		$0 96	NA	NA	NA	NA	$0 95	NA	$0 95	NA
NRC - Disconnect		$2 88	NA	NA	NA	NA	$2 84	NA	NA	NA
End Office Switching (Port Usage)										
End Office Switching Function, per mou	N/A	$0 0018	$0 0175	$0 0016333	$0 002562	$0 0021	$0 0023771	$0 0017000	$0 0019295	$0 0019
End Office Switching Function, add'l mou (5)	N/A	NA	$0 005	NA	NA	NA	NA	NA	NA	NA
End Office Interoffice Trunk Port—Shared, per mou	N/A	$0 0002	NA	$0 0001564	NA	$0 0002	$0 0001927	NA	$0 0002581	NA
Tandem Switching (Port Usage) (Local or Access Tandem)										
Tandem Switching Function per mou	N/A	$0 00063	$0 00029	$0 0006757	$0 001096	$0 0008	$0 0007834	$0 0009	$0 0006843	$0 000676
Tandem Interoffice Trunk Port - Shared per mou			NA	$0 0002126	NA	$0 0003	$0 0002834	NA	$0 0004034	NA
NOTES:										
1 Port rate includes all available features										
2 Transmission/usage charges associated with POTS circuit switched usage will also apply to circuit switched voice and/or circuit switched data transmission by B-Channels associated with 2-wire ISDN ports										

DESCRIPTION			USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
	3	Access to B Channel or D Channel Packet capabilities will be avail- able only through BFR/New Business Request Process. Rates for the packet capabi lities will be determined via the Bona Fide Request/New Business Request Process.										
	4	This rate element is for those states which have a specific rate for User Profile per B Channel.										
	5	This rate element is for use in those states with a different rate for additional										

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
TRANSPORT

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
INTEROFFICE TRANSPORT										
Common (Shared) Transport										
Common (Shared) Transport per mile per mou	N/A	$0 00001	$0 000012	$0 000008	$0 0000049	$0 0000083	$0 0000091	$0 00001	$0 0000121	$0 00004
Common (Shared) Transport Facilities Termination per mou	N/A	$0 00045	$0 0005	$0 0004152	$0 000426	$0 00047	$0 0004281	$0 00034	$0 0004672	$0 00036
[illegible]										
Interoffice Channel - Dedicated Transport - 2-Wire VG - per mile	1L5XX	$0 03390	NA	$0 0222	$0 03	$0 0384	$0 0323	$0 0282	$0 0373	$0 0173
Interoffice Channel - Dedicated Transport - 2-Wire VG - facility termination per month	U1TV2	$18 49	NA	$17 07	$27 66	$19 10	$21 33	$18 00	$21 42	$18 39
NRC - 1st	U1TV2	$144 27	NA	$79 61	$142 31	$104 23	$144 77	$137 48	$136 44	$83 35
NRC - Add'l	U1TV2	$54 15	NA	$36 08	$56 21	$39 91	$56 06	$52 58	$51 37	$20 88
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$40 34	NA	$18 94	$37 21	$26 20	$36 86	$38 07	$39 63	$30 15
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$40 54	NA	$18 94	$37 21	$26 20	$36 86	$38 07	$39 63	$31 63
Interoffice Channel - Dedicated Transport - DS0 - 56/64 KBPS										
Interoffice Channel - Dedicated Transport - DS0 - per mile per month	1L5XX	$0 0339	$0 0252	$0 0222	$0 03	$0 0384	$0 0323	$0 0282	$0 0373	$0 17
Interoffice Channel - Dedicated Transport - DS0 - facility termination per month	U1TD6	$17 81	$21 33	$16 45	$26 95	$18 37	$20 64	$17 40	$20 71	$17 74
NRC - 1st	U1TD6	$144 27	$137 15	$79 61	$142 31	$104 23	$144 77	$137 48	$136 44	$83 35
NRC - Add'l	U1TD6	$54 15	$64 45	$36 08	$56 21	$39 91	$56 06	$52 58	$51 37	$20 88
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$40 34	NA	$18 94	$37 21	$26 20	$36 86	$38 07	$39 63	$30 15
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$40 34	NA	$18 94	$37 21	$26 20	$36 86	$38 07	$39 63	$31 63
Interoffice Channel - Dedicated Transport - DS1										
Interoffice Channel - Dedicated Transport - DS1- per mile per month	1L5XX	$0 69	$0 6013	$0 4523	$0 45	$0 7831	$0 6598	$0 5753	$0 7598	$0 3525
Interoffice Channel - Dedicated Transport - DS1 facility termination per month	U1TF1	$79 69	$99 79	$78 47	$55 05	$93 40	$74 40	$71 29	$94 98	$75 83
NRC - 1st	U1TF1	$223 59	$45 91	$147 07	$298 18	$160 49	$222 81	$217 17	$216 27	$166 53
NRC - Add'l	U1TF1	$168 60	$44 18	$111 75	$231 23	$123 03	$168 92	$163 75	$162 70	$124 84
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$40 34	NA	$18 94	NA	$26 20	$36 83	$38 07	$39 63	$30 15
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$40 34	NA	$18 94	NA	$26 20	$36 86	$38 07	$39 63	$31 63
Interoffice Channel - Dedicated Transport - DS3										
Interoffice Channel - Dedicated Transport - DS3 - per mile per month	1L5XX	$11 93	$10 25	$7 07	$12 06	$16 15	$15 02	$12 98	$19 14	$6 88
Interoffice Channel - Dedicated Transport - DS3 - facility termination per month	U1TF3	$736 60	$994 83	$743 41	$1,112 02	$1,131 09	$744 38	$720 38	$904 49	$840 61
NRC - 1st	U1TF3	$877 36	$884 71	$878 95	$858 75	$883 62	$812 30	$794 94	$856 96	$877 70
NRC - Add'l	U1TF3	$540 46	$552 81	$542 61	$524 95	$545 50	$596 55	$579 55	$522 20	$540 32
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$101 69	NA	$98 49	$94 57	$99 02	$92 05	$91 26	$99 09	$102 75
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$101 69	NA	$98 49	$94 57	$101 69	$92 05	$91 26	$99 09	$102 75
Interoffice Channel - Dedicated Transport - STS-1										
Interoffice Channel - Dedicated Transport - STS-1 - per mile per month	1L5XX	$11 93	$10 25	$7 07	$12 06	$16 15	$13 48	$11 62	$19 14	$6 88
Interoffice Channel - Dedicated Transport - STS-1 - facility termination per month	U1TFS	$733 93	$966 49	$733 72	$1,088 67	$1,114 68	$692 52	$814 72	$944 40	$838 65
NRC - 1st	U1TFS	$858 02	$868 23	$856 62	$858 75	$861 17	$858 15	$857 29	$861 20	$858 26
NRC - Add'l	U1TFS	$524 50	$530 74	$523 84	$524 94	$526 42	$524 58	$524 05	$526 44	$525 25
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$94 49	$95 61	$94 34	$94 57	$94 84	$94 50	$94 41	$94 84	$94 63
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$94 49	$95 61	$94 34	$94 57	$94 84	$94 50	$94 41	$94 84	$94 63
Local Channel - Dedicated Transport										
Local Channel - Dedicated Transport - 2-Wire VG										
Monthly Recurring	ULDV2	$14 61	$18 02	$13 91	$22 26	$14 94	$17 83	$14 82	$16 83	$19 02
NRC - 1st	ULDV2	$572 46	$477 33	$382 95	$597 14	$401 17	$565 31	$553 80	$554 00	$254 14
NRC - Add'l	ULDV2	$92 07	$124 32	$62 40	$110 52	$66 35	$93 30	$86 69	$88 58	$28 96
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$45 12	NA	$18 94	$41 46	$29 54	$41 57	$42 17	$43 75	$33 65
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$18 73	NA	$8 42	NA	$19 46	$27 39	$12 76	$13 55	$23 84
Local Channel - Dedicated Transport - 4-Wire VG										
Monthly Recurring	ULDD6	$15 77	$19 01	$14 99	$23 38	$16 21	$19 03	$15 87	$18 05	$20 14
NRC - 1st	ULDD6	$581 14	$77 33	$368 44	$585 15	$407 11	$573 83	$562 23	$562 46	$257 05
NRC - Add'l	ULDD6	$95 21	$124 32	$64 05	$98 53	$68 61	$96 40	$92 67	$91 57	$30 14
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$45 12	NA	$18 94	$98 53	$29 54	$41 57	$42 17	$43 64	$33 65
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$18 73	NA	$8 42	$11 99	$19 46	$27 39	$12 76	$13 55	$23 84
Local Channel - Dedicated Transport - DS1										
Monthly Recurring	TMECS	$35 52	$44 35	$38 36	$43 80	$43 80	$38 91	$35 68	$37 20	$40 27
NRC - 1st	TMECS	$549 85	$246 50	$356 15	$538 95	$396 86	$588 53	$534 48	$534 81	$343 71

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
TRANSPORT

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - Add'l	TMECS	$475 02	$230 49	$312 89	$464 94	$342 92	$501 32	$462 69	$462 81	$277 86
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$91 22	NA	$44 22	$87 71	$61 82	$81 30	$42 17	$87 99	$23 51
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	NA	NA	NA	NA	NA	NA	$12 76	$3 11	$21 75
Local Channel - Dedicated T ransport – DS3										
DS3 - per mile per month	1L5NC	$34 21	$30 65	$23 06	$34 00	$30 34	NA	NA	$44 13	$23 76
DS3 - Facility Termination per month	ULDF3	$536 23	$598 84	$531 90	$635 09	$669 01	NA	$498 87	$582 93	$607 28
NRC - 1st	ULDF3	$877 36	$884 71	$878 95	$858 75	$883 62	$858 15	$562 25	$856 96	$877 70
NRC - Add'l	ULDF3	$540 46	$552 81	$542 61	$524 95	$545 50	$524 58	$527 88	$522 20	$540 32
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$101 69	NA	$98 49	NA	$99 02	NA	$56 25	NA	$102 75
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$101 69	NA	$98 49	NA	$99 02	NA	$56 25	NA	$102 75
Local Channel - Dedicated T ransport – STS-1										
STS-1 - per mile per month	1L5NC	$24 82	$27 61	$19 93	$30 04	$29 89	$38 98	$24 39	$29 97	$25 11
STS-1 - Facility Termination per month	ULDFS	$502 62	$681 61	$516 91	$610 64	$693 02	$531 39	$555 92	$556 66	$615 65
NRC - 1st	ULDFS	$1,084 17	$1,097 06	$1,082 37	$1,085 09	$1,088 15	$1,084 33	$1,083 24	$1,088 19	$1,085 73
NRC - Add'l	ULDFS	$682 02	$690 14	$680 91	$682 61	$684 53	$682 13	$681 44	$684 56	$683 01
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$96 08	$97 23	$95 93	$96 17	$96 44	$96 10	$96 00	$96 44	$96 22
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$96 08	$97 23	$95 93	$96 17	$96 44	$96 10	$96 00	$96 44	$96 22
CHANNELIZATION										
DS3 Channelization (DS3 to DS1)										
per Channelized System per month	MQ3	$210 87	$213 22	$173 51	$236 32	$245 84	$229 30	$226 81	$204 07	$225 59
NRC - 1st	MQ3	$355 25	$280 12	$284 43	$425 41	$259 76	$356 80	$351 95	$423 77	$265 08
NRC - Add'l	MQ3	$245 86	$196 07	$199 98	$303 33	$182 64	$247 40	$243 76	$295 21	$185 94
NRC -1sr - Disconnect	MQ3	$78 43	$64 06	$66 76	NA	$60 96	$79 94	$77 90	NA	$61 09
NRC -Add'l - Disconnect	MQ3	$63 70	$52 60	$55 25	NA	$50 46	$65 20	$63 32	NA	$50 31
NRC - Channel System - Incremental Cost - Manual Svc. Order -1st	SOMAC	$28 44	NA	$21 61	$41 47	$19 74	$26 95	$28 13	$43 41	$21 71
NRC - Channel System - Incremental Cost - Manual Svc. Order - Add'l	SOMAC	$13 47	NA	$9 61	NA	$8 77	$11 98	$13 33	$15 36	$10 46
NRC - Channel System - Incremenatl Cost - Manual Svc. Order - Disconnect - 1	SOMAC	$18 46	NA	$13 61	NA	$12 43	$16 97	$18 26	NA	$14 21
NRC - Channel System - Incremenatl Cost - Manual Svc. Order - Disconnect - A	SOMAC	$1 50	NA	NA	NA	NA	NA	$1 48	NA	$1 46
per Interface per m onth	1PQE1	$4 53	$6 31	$7 13	$8 52	$7 55	$5 58	$4 61	$9 69	$3 91
NRC - 1st	1PQE1	$15 85	$13 39	$13 45	$15 86	$12 29	$15 85	$15 76	$15 54	$12 61
NRC - Add'l	1PQE1	$11 35	$9 69	$9 63	$11 36	$8 80	$11 35	$11 28	$11 13	$9 03
DS1 Channelization (DS1 to DS0)										
per Channelized System per month	MQ1	$139 58	$163 88	$137 97	$200 01	$209 87	$146 87	$177 72	$179 81	$165 21
NRC - 1st	MQ1	$269 98	$208 64	$212 01	$302 82	$193 63	$271 52	$267 19	$304 00	$197 21
NRC - Add'l	MQ1	$163 04	$126 61	$129 60	$184 20	$118 37	$164 56	$161 43	$178 92	$119 99
NRC -1sr - Disconnect	MQ1	$34 86	$26 42	$28 95	NA	$26 44	$36 38	$34 55	NA	$25 66
NRC -Add'l - Disconnect	MQ1	$21 32	$15 95	$18 43	NA	$16 83	$22 82	$21 14	NA	$15 81
NRC - Channel System - Incremental Cost - Manual Svc. Order -1st	SOMAC	$28 44	NA	$21 61	$41 47	$19 74	$26 95	$28 13	$43 41	$21 71
NRC - Channel System - Incremental Cost - Manual Svc. Order -Add'l	SOMAC	$13 47	NA	$9 61	$11 99	$8 77	$11 98	$13 33	$15 36	$10 46
NRC - Channel System - Incremental Cost - Manual Svc. Order - Disconnect -1	SOMAC	$18 46	NA	$13 61	NA	$12 43	$16 97	$18 26	NA	$14 21
NRC - Channel System - Incremental Cost - Manual Svc. Order - Disconnect -A	SOMAC	$1 50	NA	NA	NA	NA	NA	$1 48	NA	$1 46
DS1 Channization Interfaces										
per OCU-DP(data) card per m onth(2.4-64kbps)	1D1DD	$2 61	$3 13	$2 65	$2 94	$3 12	$2 86	$2 88	$3 36	$2 46
NRC - 1st	1D1DD	$15 85	$13 39	$13 45	$15 86	$12 29	$15 85	$15 76	$15 54	$12 61
NRC - Add'l	1D1DD	$11 35	$9 59	$9 63	$11 36	$8 80	$11 35	$11 28	$11 13	$9 03
per VG card per m onth	1D1VG	$1 26	$1 78	$1 48	$1 40	$1 62	$1 45	$1 64	$1 93	$1 25
NRC - 1st	1D1VG	$15 85	$13 39	$13 45	$15 86	$12 29	$15 85	$15 76	$15 54	$12 61
NRC - Add'l	1D1VG	$11 35	$9 59	$9 63	$11 36	$8 80	$11 35	$11 28	$11 13	$9 03
DARK FIBER										
Per four fiber strands, per route m ile or fraction thereof, per m onth	1L5DF	$59 84	$55 35	$44 22	$64 64	$65 29	$70 35	$49 88	$72 45	$52 67
NRC - Per each four-fiber dark fiber arrangem ent - 1st	1L5DF	$2,518 66	$1,715 61	$1,355 29	$2,304 00	$1,685 19	$2 389 99	$2 277 00	$2 406 00	$1 672 44
NRC - Per each four-fiber dark fiber arrangem ent - Add'l	1L5DF	$835 08	$622 68	$273 69	$740 93	$580 11	$804 32	$733 08	$765 30	$509 09

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
LOOP/PORT COMBINATIONS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
[redacted]										
[redacted]										
UNBUNDLED LOOP BILLING USOC (REQUIRES ONE PER PORT)	UEPLX	This USOC to be used for Unbundled Loop when ordering Loop/Port Combination								
LOCAL NUMBER PORTABILITY (REQUIRES ONE PER PORT)	LNPCX	This USOC to be used for Local Number Portability when ordering Loop/Port Combinations								
[redacted]										
Currently Combined										
Customers with less than 4 DS0 Equivalent										
2-Wire Voice Grade Loop with 2-Wire Line Port										
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Statewide	TBD	NA	NA	$14 34	NA	NA	NA	$16 46	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 1 (Note 6)	TBD	NA	NA	$12 59	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 2 (Note 6)	TBD	NA	NA	$14 26	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 3 (Note 6)	TBD	NA	NA	$21 62	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 4 (Note 6)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
RC - 2- Wire Voice Grade Loop	UEPLX	Note 1	Note 1	NA	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
RC - Exchange Port - 2-Wire Line Port	TBD	Note 1	Note 1	NA	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
NRC - 2-Wire Voice Grade Loop/Line Port Combination - 1st, with change	USACC	$10 00	$10 00	$2.01	$10 00	$10 00	$10 00	$2 77	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Add'l, with change	USACC	$10 00	$10 00	$0 3108000	$10 00	$10 00	$10 00	$0 40	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - 1st, no change	USAC2	$10 00	$10 00	$2.01	$10 00	$10 00	$10 00	$2 77	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Add'l, no change	USAC2	$10 00	$10 00	$0.3108000	$10 00	$10 00	$10 00	$0 40	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Subsequent	USASC	$10.00	$10.00	$10 00	$10 00	$10 00	$10 00	$10 00	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - OSS LSR Charge, Electronic, per LSR received from the CLEC by one of the OSS Interactive interfaces	SOMEC	$3.50	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Incremental Cost - Manual Svc Order vs. Electronic - 1st	TBD	NA	NA	$33 67	NA	NA	NA	$40 18	NA	NA
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Incremental Cost - Manual Svc Order vs. Electronic - Add'l	TBD	NA	NA	$7 88	NA	NA	NA	$9 45	NA	NA
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Incremental Cost - Manual Svc Order vs. Electronic	SOMAN	$19 99	$19 99	NA	$19 99	$19 99	$19 99	NA	$19 99	$19 99
NRC- 2 Wire Voice Grade Loop/Line Port Combination - Subsequent Database Update - Electronic	TBD	NA	NA	NA	NA	NA	NA	$1 42	NA	NA
NRC- 2 Wire Voice Grade Loop/Line Port Combination - Subsequent Database Update - Manual Service Order	TBD	NA	NA	NA	NA	NA	NA	$10 27	NA	NA
2- Wire Voice Grade Loop with 2 -Wire DID Trunk Port										
RC- 2 Wire Voice Grade Loop with 2 - Wire Line Port	TBD	NA	NA	NA	NA	NA	NA	$23 79	NA	NA
NRC- 2- Wire Voice Grade Loop with 2- Wire Line Port - 1st	TBD	NA	NA	NA	NA	NA	NA	$13 26	NA	NA
NRC- 2- Wire Voice Grade Loop with 2- Wire Line Port - Addl	TBD	NA	NA	NA	NA	NA	NA	$8 39	NA	NA
NRC- 2- Wire Voice Grade Loop with 2- Wire Line Port - Incremental Cost-Manual Service Order - 1st	TBD	NA	NA	NA	NA	NA	NA	$53 89	NA	NA
NRC- 2- Wire Voice Grade Loop with 2- Wire Line Port - Incremental Cost-Manual Service Order - Addl	TBD	NA	NA	NA	NA	NA	NA	$11 34	NA	NA
2-Wire ISDN Digital Grade Loop with 2-wire ISDN Digital Port										
RC - 2-Wire ISDN Digital Grade Loop	USL2X	$19 08	$19 08	$19 08	$19 08	$19 08	$19 08	$19 08	$19 08	$18 32
RC - Exchange Port - 2-Wire ISDN Line Side Port	UEPPB	$24 37	$24 37	$24 37	$24 37	$24 37	$24 37	$24 37	$24 37	$15 72
RC- 2-Wire ISDN Digital Grade Loop with 2-wire ISDN Digital Port	TBD	NA	NA	NA	NA	NA	NA	$43 45	NA	NA
NRC - 2-Wire ISDN Digital Grade Loop/2-wire ISDN Digital Port - 1st conversion	USACB	$174 35	$174 35	$174 35	$174 35	$174 35	$174 35	$174 35	$174 35	$117 21

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
LOOP/PORT COMBINATIONS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - 2-Wire ISDN Digital Grade Loop/2-wire ISDN Digital Port - Add'l conversion	USACB	$174 35	$174 35	$174 35	$174 35	$174 35	$174 35	$174 35	$174 35	$117 23
NRC - 2-Wire ISDN Digital Grade Loop/2-wire ISDN Digital Port - Non Feature Subsequent Activity	USASB	$286 15	$286 15	$286 15	$286 15	$286 15	$286 15	$286 15	$286 15	$212 88
4-Wire ISDN Digital Grade Loop with 2-wire I SDN Digital Port										
RC - 4-Wire ISDN Digital Grade Loop	USL4P	$62 71	$62 71	$62 71	$62 71	$62 71	$62 71	$62 71	$62 71	$61 74
RC - Exchange Port - 4-Wire ISDN Digital Trunk Port	UEPPP	$179 01	$179 01	$179 01	$179 01	$179 01	$179 01	$179 01	$179 01	$73 62
NRC - 4-Wire ISDN Digital Grade Loop/2-wire ISDN Digital Trunk Port Combination - 1st conversion	USACP	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$328 53
NRC - 4-Wire ISDN Digital Grade Loop/2-wire ISDN Digital Trunk Port Combination - Add'l conversion	USACP	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$328 53
Combination - Subsequent Channel Activity - Per Channel	USASP	$36 92	$36 92	$36 92	$36 92	$36 92	$36 92	$36 92	$36 92	$28 39
NRC - 4-Wire ISDN Digital Grade Loop/4-wire ISDN Digital Trunk Port Combination - Subsequent Inw ard/2-way Telephone Num bers	PR7TG	$1 17	$1 17	$1 17	$1 17	$1 17	$1 17	$1 17	$1 17	$0 94
NRC - 4-Wire ISDN Digital Grade Loop/4-wire ISDN Digital Trunk Port Combination - Subsequent Outw ard Telephone num bers	PR7TP	$28 17	$28 17	$28 17	$28 17	$28 17	$28 17	$28 17	$28 17	$22 36
NRC - 4-Wire ISDN Digital Grade Loop/4-wire ISDN Digital Trunk Port Combination - Subsequent Inw ard Telephone Num bers	PR7ZT	$56 33	$56 33	$56 33	$56 33	$56 33	$56 33	$56 33	$56 33	$44 71
NRC - 4-Wire ISDN Digital Grade Loop/4-wire ISDN Digital Trunk Port Combination - Subsequent Serv ice Order Per Order	USASP	$255 25	$255 25	$255 25	$255 25	$255 25	$255 25	$255 25	$255 25	$189 76
4 - Wire DS1 Digital Loop with 4 - W ire ISDN DS1 Digital T runk Port										
RC - 4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port	TBD	NA	NA	NA	NA	NA	NA	$241 72	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - 1st	TBD	NA	NA	NA	NA	NA	NA	$481 51	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - Addl	TBD	NA	NA	NA	NA	NA	NA	$481 51	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - Subsequent Channel Activation - Per Channel	TBD	NA	NA	NA	NA	NA	NA	$36 92	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - Subsequent Inw ard/2way Telephone Num bers	TBD	NA	NA	NA	NA	NA	NA	$1 17	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - Subsequent Outw ard Telephone Num bers	TBD	NA	NA	NA	NA	NA	NA	$28 17	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - Subsequent Inw ard Telephone Num bers	TBD	NA	NA	NA	NA	NA	NA	$56 33	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - Subsequent Serv ice Order Per Order	TBD	NA	NA	NA	NA	NA	NA	$255 25	NA	NA
4 - Wire DS1 Digital Loop with 4 - W ire DID Trunk Port										
RC - 4 - Wire DS1 Digital Loop with 4 - Wire DID Trunk Port	TBD	NA	NA	NA	NA	NA	NA	$186 23	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire DID Trunk Port - 1st	TBD	NA	NA	NA	NA	NA	NA	$490 38	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - Addl	TBD	NA	NA	NA	NA	NA	NA	$490 38	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire DIDTrunk Port - Subsequent Channel Activation - Per Channel	TBD	NA	NA	NA	NA	NA	NA	$146 91	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - Subsequent T elephone Num bers	TBD	NA	NA	NA	NA	NA	NA	$120 96	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - Subsequent Si gnaling Changes	TBD	NA	NA	NA	NA	NA	NA	$29 65	NA	NA
NRC -4 - Wire DS1 Digital Loop with 4 - Wire ISDN DS1 Digital Trunk Port - Subsequent Serv ice Order Per Order	TBD	NA	NA	NA	NA	NA	NA	$127 63	NA	NA
Customers with 4 or more DS0 Equiv alent										
2-Wire Voice Grade Loop with 2-W ire Line Port	TBD	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
All Other Loop/Port Combinations	TBD	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
Not Currently Combined										
Customers with less than 4 DS0 Equivalent										
2-Wire Voice Grade Loop with 2-Wire Line Port										
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Statewide	TBD	NA	NA	$14 34	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 1 (Note 6)	TBD	NA	NA	$12 59	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 2 (Note 6)	TBD	NA	NA	$14 26	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 3 (Note 6)	TBD	NA	NA	$21 62	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 4 (Note 6)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
RC - 2- Wire Voice Grade Loop	UEPLX	Note 3	Note 3	NA	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
RC - Exchange Port - 2-Wire Line Port	TBD	Note 3	Note 3	NA	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - 1st, with change	USACC	Note 3	Note 3	$2 01	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Add'l, with change	USACC	Note 3	Note 3	$0 3108000	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - 1st, no change	USAC2	Note 3	Note 3	$2 01	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Add'l, no change	USAC2	Note 3	Note 3	$0 3108000	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Subsequent	USASC	$10 00	$10.00	$10 00	$10 00	$10.00	$10 00	$10 00	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Incremental Cost - Manual Svc Order vs Electronic - 1st	TBD	Note 3	Note 3	$33 67	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Incremental Cost - Manual Svc Order vs Electronic - Add'l	TBD	Note 3	Note 3	$7 88	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
2-Wire ISDN Digital Grade Loop with 2-wire ISDN Digital Port										
RC - 2-Wire ISDN Digital Grade Loop	USL2X	$19 08	$19 08	$19 08	$19 08	$19 08	$19 08	$19 08	$19 08	$18 32
RC - Exchange Port - 2-Wire ISDN Line Side Port	UEPPB	$24 37	$24.37	$24 37	$24 37	$24 37	$24 37	$24 37	$24 37	$15 72
NRC - 2-Wire ISDN Digital Grade Loop/2-wire ISDN Digital Port - 1st conversion	USACB	$174.35	$174.35	$174 35	$174 35	$174 35	$174 35	$174 35	$174 35	$117 23
NRC - 2-Wire ISDN Digital Grade Loop/2-wire ISDN Digital Port - Add'l conversion	USACB	$174 35	$174.35	$174.35	$174 35	$174 35	$174 35	$174 35	$174 35	$117 23
NRC - 2-Wire ISDN Digital Grade Loop/2-wire ISDN Digital Port - Non Feature Subsequent Activity	USASB	$286 15	$286 15	$286 15	$286 15	$286 15	$286 15	$286 15	$286 15	$212 88
4-Wire ISDN Digital Grade Loop with 2-wire ISDN Digital Port										
RC - 4-Wire ISDN Digital Grade Loop	USL4P	$62 71	$62 71	$62 71	$62 71	$62 71	$62 71	$62 71	$62 71	$61 74
RC - Exchange Port - 4-Wire ISDN Digital Trunk Port	UEPPP	$179 01	$179 01	$179 01	$179 01	$179 01	$179 01	$179 01	$179 01	$73 62
NRC - 4-Wire ISDN Digital Grade Loop/2-wire ISDN Digital Trunk Port Combination - 1st conversion	USACP	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$328 53
NRC - 4-Wire ISDN Digital Grade Loop/2-wire ISDN Digital Trunk Port Combination - Add'l conversion	USACP	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$481 51	$328 53
Combination - Subsequent Channel Activity - Per Channel	USASP	$36 92	$36 92	$36 92	$36 92	$36 92	$36 92	$36 92	$36 92	$28 39
NRC - 4-Wire ISDN Digital Grade Loop/4-wire ISDN Digital Trunk Port Combination - Subsequent Inward/2-way Telephone Numbers	PR7TG	$1 17	$1 17	$1 17	$1 17	$1 17	$1 17	$1 17	$1 17	$0 94
NRC - 4-Wire ISDN Digital Grade Loop/4-wire ISDN Digital Trunk Port Combination - Subsequent Outward Telephone numbers	PR7TP	$28 17	$28 17	$28 17	$28 17	$28 17	$28 17	$28 17	$28 17	$22 36
NRC - 4-Wire ISDN Digital Grade Loop/4-wire ISDN Digital Trunk Port Combination - Subsequent Inward Telephone Numbers	PR7ZT	$56 33	$56 33	$56 33	$56 33	$56 33	$56 33	$56 33	$56 33	$44 71
NRC - 4-Wire ISDN Digital Grade Loop/4-wire ISDN Digital Trunk Port Combination - Subsequent Service Order Per Order	USASP	$255 25	$255.25	$255 25	$255 25	$255 25	$255 25	$255 25	$255 25	$189 76
All Other Loop/Port Combinations	TBD	TBN	TBN	Note 2	TBN	TBN	TBN	TBN	TBN	TBN
Customers with 4 or more DS0 Equivalent										
2-Wire Voice Grade Loop with 2-Wire Line Port	TBD	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
LOOP/PORT COMBINATIONS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
All Other Loop/Port Combinations	TBD	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
[illegible]										
All etc. in BellSouth Region										
Currently Combined										
2-Wire Voice Grade Loop with 2-Wire Line Port										
2-Wire Voice Grade Loop with 2-Wire Line Port, Statewide	TBD	NA	NA	$14 34	NA	NA	NA	$16 46	NA	NA
2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 1 (Note 6)	TBD	NA	NA	$12 59	NA	NA	NA	NA	NA	NA
2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 2 (Note 6)	TBD	NA	NA	$14 26	NA	NA	NA	NA	NA	NA
2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 3 (Note 6)	TBD	NA	NA	$21 62	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 4 (Note 6)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
RC - 2- Wire Voice Grade Loop	UEPLX	Note 1	Note 1	NA	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
RC - Exchange Port - 2-Wire Line Port	TBD	Note 1	Note 1	NA	Note 1	Note 1	Note 1	Note 1	Note 1	Note 1
NRC - 2-Wire Voice Grade Loop/Line Port Combination - 1st, with change	USACC	$10 00	$10 00	$2 01	$10 00	$10 00	$10 00	$2 77	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Add'l, with change	USACC	$10 00	$10 00	$0 3108000	$10 00	$10 00	$10 00	$0 40	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - 1st, no change	USAC2	$10 00	$10 00	$2 01	$10 00	$10 00	$10 00	$2 77	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Add'l, no change	USAC2	$10 00	$10 00	$0 3108000	$10 00	$10 00	$10 00	$0 40	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Subsequent	USASC	$10.00	$10.00	$10 00	$10 00	$10 00	$10 00	$10 00	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - OSS LSR Charge, Electronic, per LSR received from the CLEC by one of the OSS Interactive Interfaces	SOMEC	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50	$3 50
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Incremental Cost - Manual Svc Order vs. Electronic - 1st	TBD	NA	NA	$33 67	NA	NA	NA	$40 18	NA	NA
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Incremental Cost - Manual Svc Order vs. Electronic - Add'l	TBD	NA	NA	$7 88	NA	NA	NA	$9 45	NA	NA
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Incremental Cost - Manual Svc.Order vs. Electronic	SOMAN	$19 99	$19 99	NA	$19 99	$19 99	$19 99	NA	$19 99	$19 99
All Other Loop/Port Combinations	TBD	TBN	TBN	Note 2	TBN	TBN	TBN	TBN	TBN	TBN
Not Currently Combined										
2-Wire Voice Grade Loop with 2-Wire Line Port										
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Statewide	TBD	NA	NA	$14 34	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 1 (Note 6)	TBD	NA	NA	$12 59	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 2 (Note 6)	TBD	NA	NA	$14 26	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 3 (Note 6)	TBD	NA	NA	$21 62	NA	NA	NA	NA	NA	NA
RC - 2-Wire Voice Grade Loop with 2-Wire Line Port, Zone 4 (Note 6)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
RC - 2- Wire Voice Grade Loop	UEPLX	Note 3	Note 3	NA	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
RC - Exchange Port - 2-Wire Line Port	TBD	Note 3	Note 3	NA	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - 1st, with change	USACC	Note 3	Note 3	$2 01	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Add'l. with change	USACC	Note 3	Note 3	$0 3108000	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - 1st, no change	USAC2	Note 3	Note 3	$2 01	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Add'l, no change	USAC2	Note 3	Note 3	$0 3108000	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Subsequent	USASC	$10.00	$10 00	$10 00	$10 00	$10 00	$10 00	$10 00	$10 00	$10 00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Incremental Cost - Manual Svc.Order vs. Electronic - 1st	TBD	Note 3	Note 3	$33 67	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Incremental Cost - Manual Svc Order vs. Electronic - Add'l	TBD	Note 3	Note 3	$7 88	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
All Other Loop/Port Combinations	TBD	TBN	TBN	Note 2	TBN	TBN	TBN	TBN	TBN	TBN
MARKET RATES - INCLUDING ALL APPLICABLE RATE ELEMENTS										
Currently Combined										
2-Wire Analog Line Port (Res., Bus.), per month	TBD	$14 00	$14 00	$14 00	$14 00	$14 00	$14 00	$14 00	$14 00	$14 00
2-Wire Analog Loop, per month	UEPLX	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
LOOP/PORT COMBINATIONS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC	TBD	$41.50	$41.50	$41.50	$41.50	$41.50	$41.50	$41.50	$41.50	$41.50
NRC - 2-Wire Voice Grade Loop/Line Port Combination - Subsequent	USASC	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00
NRC - 2-Wire Voice Grade Loop/Line Port Combination - OSS LSR Charge, Electronic, per LSR received from the CLEC by one of the OSS interactive interfaces	SOMEC	$3.50	$3.50	$3.50	$3.50	$3.50	$3.50	$3.50	$3.50	$3.50
NRC - Incremental Manual Service Order	SOMAN	$19.99	$19.99	$19.99	$19.99	$19.99	$19.99	$19.99	$19.99	$19.99
NRC - Incremental Manual Service Order Disconnect	TBD	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00
Not Currently Combined										
Analog Line Port (Res., Bus.), per month	TBD	$14.00	$14.00	$14.00	$14.00	$14.00	$14.00	$14.00	$14.00	$14.00
Analog Loop, per month	UEPLX	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3	Note 3
[illegible]	TBD	$90.00	$90.00	$90.00	$90.00	$90.00	$90.00	$90.00	$90.00	$90.00
2-Wire Voice Grade Loop/Line Port Combination - Subsequent	USASC	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00	$10.00
2-Wire Voice Grade Loop/Line Port Combination - OSS LSR Charge, Electronic, per LSR received from the CLEC by one of the OSS interactive interfaces	SOMEC	$3.50	$3.50	$3.50	$3.50	$3.50	$3.50	$3.50	$3.50	$3.50
NRC - Incremental Manual Service Order	SOMAN	$19.99	$19.99	$19.99	$19.99	$19.99	$19.99	$19.99	$19.99	$19.99
NRC - Incremental Manual Service Order Disconnect	TBD	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00	$20.00

NOTES:

1. In the absence of ordered rates by a State Commission, the rates for Currently Combined combinations of loop and port network elements will be the sum of the stand alone recurring rates of the UNEs which make up the combinations.

2. For Georgia, on an interim basis, for those currently combined port/loop combinations defined by the Georgia Public Service Commission as not currently combined, the non-recurring and recurring rates for such UNE combinations shall be the sum of the stand-alone non-recurring and recurring rates of the UNEs which make up the combinations.

3. Where BellSouth is not required to provide combinations of loop/port network elements, the rates for the 2-wire voice grade loop with 2-wire line port combination will be as follows: the recurring charges will be the sum of the stand-alone UNE loop rates and the Market Rates for the port as set forth in this Exhibit. The non-recurring charges associated with these combinations are those non-recurring charges as set forth in this Exhibit under Market Rates.

4. Usage and Common Transport rates associated with the stand-alone UNE port elements will apply to all combinations of loop/port network elements.

5. The Extended Area Calling Plans set forth in the stand-alone UNE Port rates section will apply to combinations of the loop/port network elements.

6. Deaveraged rates by zone will be available, where indicated, effective May 1, 2000.

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
ENHANCED EXTENDED LINKS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
Unbundled Loop/LT (exposed Copy Network)										
Enhanced Extended Link ("EEL")										
Local Loop - 2-wire VG - per month										
Statewide	UEAL2	$22 43	$17 00	$17 89	$23 35	$22 84	$25 05	$15 88	$26 25	$20 02
Zone 1 (Note 1)	TBD	NA	NA	$15 40	NA	NA	NA	NA	NA	NA
Zone 2 (Note 1)	TBD	NA	NA	$17 78	NA	NA	NA	NA	NA	NA
Zone 3 (Note 1)	TBD	NA	NA	$28 26	NA	NA	NA	NA	NA	NA
Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
Local Loop - 4-wire VG - per month										
Statewide	UEAL4	$30 00	$30 00	$26 58	NA	$31 52	$30 55	$27 49	$35 86	$18 00
Zone 1 (Note 1)	TBD	NA	NA	$22 88	NA	NA	NA	NA	NA	NA
Zone 2 (Note 1)	TBD	NA	NA	$26 42	NA	NA	NA	NA	NA	NA
Zone 3 (Note 1)	TBD	NA	NA	$41 99	NA	NA	NA	NA	NA	NA
Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
Local Loop - 56kbps - per month										
Statewide	UDL56	$34 15	$48 33	$29 92	NA	$35 58	$34 95	$32 67	$41 70	$42 23
Zone 1 (Note 1)	TBD	NA	NA	$26 44	NA	NA	NA	NA	NA	NA
Zone 2 (Note 1)	TBD	NA	NA	$30 53	NA	NA	NA	NA	NA	NA
Zone 3 (Note 1)	TBD	NA	NA	$48 53	NA	NA	NA	NA	NA	NA
Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
Local Loop - 64 kbps - per month										
Statewide	UDL64	$34 15	$48 33	$29 22	NA	$35 58	$34 95	$32 67	$41 70	$42 23
Zone 1 (Note 1)	TBD	NA	NA	$26 44	NA	NA	NA	NA	NA	NA
Zone 2 (Note 1)	TBD	NA	NA	$30 53	NA	NA	NA	NA	NA	NA
Zone 3 (Note 1)	TBD	NA	NA	$48 53	NA	NA	NA	NA	NA	NA
Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
Local Loop - DS1 - per month										
Statewide	USLXX	$64 65	$80 00	$60 88	$67 96	$72 86	$69 59	$62 78	$72 55	TBD
Zone 1 (Note 1)	TBD	NA	NA	$52 40	NA	NA	NA	NA	NA	NA
Zone 2 (Note 1)	TBD	NA	NA	$60 51	NA	NA	NA	NA	NA	NA
Zone 3 (Note 1)	TBD	NA	NA	$96 18	NA	NA	NA	NA	NA	NA
Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
Local Loop - DS3 - per Mile	1L5ND	$43 98	$40 01	$29 96	$43 69	$38 98	$54 39	$32 53	$56 71	$30 53
Local Loop - DS3 - per Facility Termination	UE3PX	$456 18	$470 83	$392 61	$436 95	$497 08	$427 81	$387 01	$510 30	$400 21
Local Loop - STS-1 - per Mile	1L5ND	$43 98	$40 01	$29 96	$43 69	$38 98	$54 39	$32 53	$56 71	$30 53
Local Loop - STS-1 - per Facility Termination	UDLS1	$456 18	$470 83	$392 61	$436 95	$497 08	$427 81	$387 01	$510 30	$400 21
Local Channel - Dedicated - 2-Wire VG per month	ULDV2	$14 61	$18 02	$16 28	$22 26	$14 94	$17 83	$14 82	$16 83	$19 02
Local Channel - Dedicated - 4-Wire VG per month	ULDV4	$15 77	$19 01	$17 18	$23 38	$16 21	$19 03	$15 87	$18 05	$20 14
Local Channel - Dedicated - DS1 per month	TMECS	$35 52	$44 35	$38 57	$43 80	$43 80	$38 91	$35 68	$37 20	$40 27
Local Channel - Dedicated - DS3 - per mile per month	1L5NC	$34 21	$30 65	$23 06	$34 00	$30 34	NA	NA	$44 13	$23 76
Local Channel - Dedicated - DS3 - Facility Termination per month	ULDF3	$536 23	$598 84	$531 90	$635 09	$669 01	$526 67	$498 87	$582 93	$607 28
Local Channel - Dedicated - STS-1 - per mile per month	1L5NC	$24 82	$27 61	$19 93	$30 04	$29 89	$38 98	$24 39	$29 97	$25 11
Local Channel - Dedicated - STS-1 - Facility Termination per month	ULDS1	$502 62	$681 61	$516 91	$610 64	$693 02	$531 39	$555 92	$596 66	$615 65

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
ENHANCED EXTENDED LINKS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
Interoffice Channel - Dedicated - 2-Wire VG - per mile per month	1L5XX	$0 03	NA	$0 02	$0 03	$0 04	$0 03	$0 0282	$0 04	$0 02
Interoffice Channel - Dedicated - 2-Wire VG - Facility Termination per month	U1TV2	$18 49	NA	$17 07	$27 66	$19 10	$21 33	$18 00	$21 42	$18 33
Interoffice Channel - Dedicated - DS0 - 56kbps - per mile per month	1L5XX	$0 04	$0 03	$0 02	$0 03	$0 04	$0 03	$0 0282	$0 04	$0 17
Interoffice Channel - Dedicated - DS0 - 56 kbps - Facility Termination per month	U1TD5	$17 81	21 33	$16 45	$26 95	$18 37	$20 64	$17 40	20 71	$17 74
Interoffice Channel - Dedicated - DS0 - 64kbps - per mile per month	1L5XX	$0 04	$0 03	$0 02	$0 03	$0 04	$0 03	$0 03	$0 04	$0 17
Interoffice Channel - Dedicated - DS0 - 64 kbps - Facility Termination per month	U1TD6	$17 81	21 33	$16 45	$26 95	$18 37	$20 64	$17 40	20 71	$17 74
Interoffice Channel - Dedicated - DS1 - per mile per month	1L5XX	$0 69	$0 60	$0 31	$0 45	$0 78	$0 66	$0 57530	$0 76	$0 35
Interoffice Channel - Dedicated - DS1 - Facility Termination per month	U1TF1	$79 69	$99 79	$63 39	$55 05	$93 40	$74 40	$71 29	$94 98	$75 83
Interoffice Channel - Dedicated - DS3 - per mile per month	1L5XX	$11 93	$10 25	$6 46	$12 06	$16 15	$13 48	$12 98	$19 14	$6 88
Interoffice Channel - Dedicated - DS3 - Facility Termination per month	U1TF3	736 6	994 83	$717 60	$1,112 02	$1,131 09	$686 84	$720 38	$904 49	$840 61
Interoffice Channel - Dedicated - STS-1 - per mile per month	1L5XX	$11 93	$10 25	$7 07	$12 06	$16 15	$13 48	$11 62	$19 14	$6 88
Interoffice Channel - Dedicated - STS-1 - Facility Termination per month	U1TFS	$733 93	$966 49	$733 72	$1,088 67	$1,114 68	$692 52	$814 72	$944 40	$838 65
DS3 Channelized System per month	MQ3	$210 87	$213 22	$202 91	$236 32	$245 84	$229 30	$226 81	$204 07	$225 59
DS3 Interface per month (DS1 COCI)	1PQE1	$4 53	$6 31	$0 67	$8 52	$7 55	$5 58	$4 61	$9 69	$3 91
DS1 Channelized System per month	MQ1	$139 58	$163 88	$137 97	$200 01	$209 87	$146 87	$177 72	$179 81	$165 21
CCU-DP(data) Interface card per month (2.4-64kbs)	1D1DD	$2 61	$3 13	$1 06	$2 94	$3 12	$2 86	$2 88	$3 36	$2 46
VG Interface card per month (DS0)	1D1VG	$1 26	$1 78	$2 20	$1 40	$1 62	$1 45	$1 64	$1 93	$1 25
Existing UNE Combination "Switch As Is" Conversion Charge										
"Switch As Is" Conversion Charge - 1st	UNCCC	$54 03	$63 73	$71 04	$54 09	$54 23	$54 09	$114 00	$54 26	$54 13
"Switch As Is" Conversion Charge - Add'l	UNCCC	$32 11	$33 10	$39 60	$32 16	$32 24	$32 16	$32 10	$32 25	$32 17
(rates above, if not ordered, are subject to true-up.)										
2-wire VG Loop/DS1 Interoffice Channel - Dedicated Transport EEL										
2-wire VG Loop per month, statewide	MQ3	$22 43	$17 00	$17 89	$23 35	$22 84	$25 05	$15 88	$26 25	$26 02
2-wire VG Loop per month, Zone 1 (Note 1)	TBD	NA	NA	$15 40	NA	NA	NA	NA	NA	NA
2-wire VG Loop per month, Zone 2 (Note 1)	TBD	NA	NA	$17 76	NA	NA	NA	NA	NA	NA
2-wire VG Loop per month, Zone 3 (Note 1)	TBD	NA	NA	$28 26	NA	NA	NA	NA	NA	NA
2-wire VG Loop per month, Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
DS1 Interoffice Channel - Dedicated Transport EEL - Per Mile per month	1L5XX	$0 69	$0 60	$0 31	$0 45	$0 78	$0 66	$0 5753	$0 76	$0 35
DS1 Interoffice Channel - Dedicated Transport EEL - Facility Termination per m	U1TF1	$79 69	$99 79	$63 39	$55 05	$93 40	$74 40	$71 29	$94 98	$75 83
DS1 Channelization System per system per month	MQ1	$139 58	$163 88	$137 97	$200 01	$209 87	$146 87	$177 72	$179 81	$165 21
DS1 Channelization Interface -VG per month	1PQE1	$4 53	$6 31	$2 20	$8 52	$7 55	$5 58	$4 61	$9 69	$3 91
NRC - Switch As Is - EEL- 1st	UNCCC	$14 37	$16 86	$12 97	$16 86	$12 70	$15 41	$16 86	$28 87	$16 86
NRC - Switch As Is - EEL - Add'l	UNCCC	$13 33	$15 48	$11 27	$15 48	$11 10	$13 33	$15 48	$28 35	$15 48
NRC - Switch As Is - EEL - Disconnect - 1st	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Disconnect - Add'l	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Manual vs Elect - 1st	SOMAC	$56 43	$51 31	$45 46	$51 31	$42 70	$55 41	$51 31	$56 54	$51 31
NRC - Switch As Is - EEL- Manual vs Elect - Add'l	SOMAC	$19 15	$17 56	$15 72	$17 56	$14 77	$19 16	$17 56	$19 02	$17 56
INTERIM NRCs FOR *NEW* EEL SUBJECT TO TRUE-UP:			Orlando, Miami, Ft Laud FL			New Orleans LA		Greensboro Charlotte NC		Nashville TN
NRC - 2-wire VG Loop - 1st	SOMAC	NA	$195 00	$157 33	NA	$190 74	NA	$57 99	NA	$247 97
NRC - 2-wire VG Loop - Add'l	SOMAC	NA	$97 00	$120 74	NA	$134 43	NA	$42 37	NA	$195 72
NRC - Interoffice Channel - DS1- Facility Termination - 1st	SOMAC	NA	$45 91	$166 01	NA	$186 69	NA	$217 17	NA	$195 68
NRC - Interoffice Channel - DS1- Facility Termination - Add'l	SOMAC	NA	$44 18	$130 69	NA	$149 23	NA	$163 75	NA	$156 47
NRC - DS1 Channelization System - 1st	SOMAC	NA	$235 06	$240 96	NA	$220 07	NA	$301 74	NA	$222 87

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
ENHANCED EXTENDED LINKS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - DS1 Channelization System - Add'l	SOMAC	NA	$142 56	$148 03	NA	$135 20	NA	$182 57	NA	$135 80
NRC - DS1 Channelization System - VG Interface - 1st	SOMAC	NA	$13 39	$13 45	NA	$12 29	NA	$15 76	NA	$12 61
NRC - DS1 Channelization System - VG Interface - Add'l	SOMAC	NA	$9 59	$9 63	NA	$8 80	NA	$11 28	NA	$9 03
4-wire VG Loop/DS1 Interoffice Channel - Dedicated Transport EEL										
4-wire VG Loop, per month, statewide	UEAL4	$30 00	$30 00	$26 58	NA	$31 52	$30 55	$27 49	$35 86	$18 00
4-wire VG Loop, per month, Zone 1 (Note 1)	TBD	NA	NA	$22 88	NA	NA	NA	NA	NA	NA
4-wire VG Loop, per month, Zone 2 (Note 1)	TBD	NA	NA	$26 42	NA	NA	NA	NA	NA	NA
4-wire VG Loop, per month, Zone 3 (Note 1)	TBD	NA	NA	$41 99	NA	NA	NA	NA	NA	NA
4-wire VG Loop, per month, Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
DS1 Interoffice Channel - Dedicated Transport EEL - Per Mile per month	1L5XX	$0 69	$0 60	$0 31	$0 45	$0 78	$0 66	$0 5753	$0 76	$0 35
DS1 Interoffice Channel - Dedicated Transport EEL - Facility Termination per m	U1TF1	$79 69	$99 79	$63 39	$55 05	$93 40	$74 40	$71 29	$94 98	$75 83
DS1 Channelization System per system per month	MQ1	$139 58	$163 86	$137 97	$200 01	$209 87	$146 87	$177 72	$179 81	$165 21
DS1 Channelization Interface -VG per month	1D1VG	$1 26	$1 78	$2 20	$1 40	$1 62	$1 45	$1 64	$1 93	$1 25
NRC - Switch As Is - EEL- 1st	UNCCC	$14 37	$16 86	$12 97	$16 86	$12 70	$15 41	$16 86	$28 87	$16 86
NRC - Switch As Is - EEL - Add'l	UNCCC	$13 33	$15 48	$11 27	$15 48	$11 10	$13 33	$15 48	$28 35	$15 48
NRC - Switch As Is - EEL - Disconnect - 1st	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Disconnect - Add'l	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Manual vs. Elect - 1st	SOMAC	$56 43	$51 31	$45 46	$51 31	$42 70	$55 41	$51 31	$56 54	$51 31
NRC - Switch As Is - EEL- Manual vs. Elect - Add'l	SOMAC	$19 15	$17 56	$15 72	$17 56	$14 77	$19 16	$17 56	$19 02	$17 56
INTERIM NRCs FOR *NEW* EEL SUBJECT TO TRUE-UP:			Orlando, Miami, Ft Laud FL			New Orleans LA		Greensboro Charlotte NC		Nashville TN
NRC 4-wireVG Loop - 1st	SOMAC	NA	$141 00	$260 11	NA	$334 69	NA	$288 47	NA	$113 50
NRC 4-wireVG Loop - Add'l	SOMAC	NA	$43 00	$213 21	NA	$243 53	NA	$237 45	NA	$86 00
NRC - DS1 - Interoffice Channel - Facility Termination - 1st	SOMAC	NA	$45 91	$166 01	NA	$186 69	NA	$217 17	NA	$195 68
NRC - DS1 - Interoffice Channel - Facility Termination - Add'l	SOMAC	NA	$44 18	$130 69	NA	$149 23	NA	$163 75	NA	$156 47
NRC - DS1 Channelization System - 1st	SOMAC	NA	$235 06	$240 96	NA	NA	NA	$301 74	NA	$222 87
NRC - DS1 Channelization System - Add'l	SOMAC	NA	$142 56	$148 03	NA	NA	NA	$182 57	NA	$135 80
NRC - DS1 Channelization System - Interface VG - 1st	SOMAC	NA	$13 39	$13 45	NA	$12 29	NA	$15 76	NA	$12 61
DS1 Channelization System - Interface VG - Add'l	SOMAC	NA	$9 59	$9 63	NA	$8 80	NA	$11 28	NA	$9 03
4-wire 56 kbps Loop/DS1 Interoffice Channel - Dedicated Transport EEL										
4-wire 56 kbps Loop, per month, statewide	UNCD5	$34 15	$48 33	$30 72	NA	$35 58	$34 95	$32 67	$41 70	$42 23
4-wire 56 kbps Loop, per month, Zone 1 (Note 1)	TBD	NA	NA	$26 44	NA	NA	NA	NA	NA	NA
4-wire 56 kbps Loop, per month, Zone 2 (Note 1)	TBD	NA	NA	$30 53	NA	NA	NA	NA	NA	NA
4-wire 56 kbps Loop, per month, Zone 3 (Note 1)	TBD	NA	NA	$48 53	NA	NA	NA	NA	NA	NA
4-wire 56 kbps Loop, per month, Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
DS1 Interoffice Channel - Dedicated Transport EEL - Per Mile per month	1L5XX	$0 69	$0 60	$0 31	$0 45	$0 78	$0 66	$0 5753	$0 76	$0 35
DS1 Interoffice Channel - Dedicated Transport EEL - Facility Termination per m	UNCB1	$79 69	$99 79	$63 39	$55 05	$93 40	$74 40	$71 29	$94 98	$75 83
DS1 Channelization System per system per month	UNCN1	$139 58	$163 86	$137 97	$200 01	$209 87	$146 87	$177 72	$179 81	$165 21
DS1 Channelization Interface - OCU-DP per month	UNC1D	$4 53	$6 31	$2 20	$8 52	$7 55	$5 58	$4 61	$9 69	$3 91
NRC - Switch As Is - EEL- 1st	UNCCC	$14 37	$16 86	$12 97	$16 86	$12 70	$15 41	$16 86	$28 87	$16 86
NRC - Switch As Is - EEL - Add'l	UNCCC	$13 33	$15 48	$11 27	$15 48	$11 10	$13 33	$15 48	$28 35	$15 48
NRC - Switch As Is - EEL - Disconnect - 1st	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Disconnect - Add'l	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Manual vs. Elect - 1st	SOMAC	$56 43	$51 31	$45 46	$51 31	$42 70	$55 41	$51 31	$56 54	$51 31
NRC - Switch As Is - EEL- Manual vs. Elect - Add'l	SOMAC	$19 15	$17 56	$15 72	$17 56	$14 77	$19 16	$17 56	$19 02	$17 56
INTERIM NRCs FOR *NEW* EEL SUBJECT TO TRUE-UP:			Orlando, Miami, Ft Laud FL			New Orleans LA		Greensboro Charlotte NC		Nashville TN
NRC - 4-wire 56 kbps Loop - 1st	SOMAC	NA	$709 72	$401 71	NA	$483 59	NA	$489 04	NA	$698 42
NRC - 4-wire 56 kbps Loop - Add'l	SOMAC	NA	$483 45	$283 84	NA	$315 57	NA	$337 51	NA	NA
NRC - DS-1 Interoffice Channel - Facility Termination - 1st	SOMAC	NA	$45 91	$166 01	NA	$186 69	NA	$217 17	NA	$195 68
NRC - DS-1 Interoffice Channel - Facility Termination - Add'l	SOMAC	NA	$44 18	$130 69	NA	$149 23	NA	$163 75	NA	$156 47

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
ENHANCED EXTENDED LINKS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC- New - DS1 Channelization System										
NRC - DS1 Channelization System - 1st	SOMAC	NA	$238 43	$302 82	NA	$297 96	NA	$338 55	NA	$222 87
NRC - DS1 Channelization System - Add'l	SOMAC	NA	$145 55	$184 20	NA	$181 39	NA	$200 06	NA	$135 80
NRC - DS1 Channelization Interface OCU-DP card per m onth(2 4-64kbps) - 1st	SOMAC	NA	$13 39	$13 45	NA	$12 29	NA	$15 76	NA	$12 61
NRC - DS1 Channelization Interface OCU-DP card per m onth(2 4-64kbps) - Ad	SOMAC	NA	$9 59	$9 63	NA	$8 80	NA	$11 28	NA	$9 03
4-wire 64 kbps Loop/DS1 I nteroffice Channel - Dedicated T. ransport EEL										
4-wire 64 kbps Loop, per m onth, statewide	UDL64	$34 15	$48 33	$30 72	NA	$35 58	$34 95	$32 67	$41 70	$42 23
4-wire 64 kbps Loop, per m onth, Zone 1 (Note 1)	TBD	NA	NA	$26 44	NA	NA	NA	NA	NA	NA
4-wire 64 kbps Loop, per m onth, Zone 2 (Note 1)	TBD	NA	NA	$30 53	NA	NA	NA	NA	NA	NA
4-wire 64 kbps Loop, per m onth, Zone 3 (Note 1)	TBD	NA	NA	$48 53	NA	NA	NA	NA	NA	NA
4-wire 64 kbps Loop, per m onth, Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
DS1 Interoffice Channel - Dedicated Transport EEL - Per Mile per month	1L5XX	$0.69	$0 60	$0.31	$0 45	$0 78	$0 66	$0 5753	$0 76	$0 35
DS1 Interoffice Channel - Dedicated Transport EEL - Facility Termination per m	U1TF1	$79 69	$99 79	$63 39	$55 05	$93 40	$74 40	$71 29	$94 98	$75 83
DS1 Channelization System per system per month	MQ1	$139 58	$163 88	$137 97	$200 01	$209 87	$146 87	$177 72	$179 81	$165 21
DS1 Channelization Interface - OCU-DP per m onth	1D1DD	$2 61	$3 13	$1 06	$2 94	$3 12	$2 86	$2 88	$3 36	$2 46
NRC - Switch As Is - EEL- 1st	UNCCC	$14 37	$16 86	$12 97	$16 86	$12 70	$15 41	$16 86	$28 87	$16 86
NRC - Switch As Is - EEL - Add'l	UNCCC	$13 33	$15 48	$11 27	$15 48	$11 10	$13 33	$15 48	$28 35	$15 48
NRC - Switch As Is - EEL - Disconnect - 1st	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Disconnect - Add'l	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Manual vs. Elect - 1st	SOMAC	$56 43	$51 31	$45 46	$51 31	$42 70	$55 41	$51 31	$56 54	$51 31
NRC - Switch As Is - EEL- Manual vs. Elect - Add'l	SOMAC	$19 15	$17 56	$15 72	$17 56	$14 77	$19 16	$17 56	$19 02	$17 56
INTERIM NRCs FOR *NEW* EEL SUBJECT TO TRUE-UP:			Orlando, Miami, Ft Laud FL			New Orleans LA		Greensboro Charlotte NC		Nashville TN
NRC - 4-wire 64 kbps Loop - 1st	SOMAC	NA	$709 72	$401 71	NA	$483 59	NA	$489 04	NA	$698 42
NRC - 4-wire 64 kbps Loop - Add'l	SOMAC	NA	$483 45	$283 84	NA	$315 57	NA	$337 51	NA	NA
NRC - DS1- Interoffice Channel - Facility Termination - 1st	SOMAC	NA	$45 91	$166 01	NA	$186 69	NA	$217 17	NA	$195 68
NRC - DS1- Interoffice Channel - Facility Termination - Add'l	SOMAC	NA	$44 18	$130 69	NA	$149 23	NA	$163 75	NA	$156 47
NRC - DS1 Channelization System - 1st	SOMAC	NA	$238 43	$331 77	NA	$297 96	NA	$338 55	NA	$222 87
NRC - DS1 Channelization System - Add'l	SOMAC	NA	$145 55	$202 63	NA	$181 39	NA	$200 06	NA	$135 80
NRC - DS1 Channelization Sys. Interface OCU-DP card per m onth(2 4-64kbps)	SOMAC	NA	$13 39	$13 45	NA	$12 29	NA	$15 76	NA	$12 61
NRC - DS1 Channelization Sys. Interface OCU-DP card per m onth(2 4-64kbps)	SOMAC	NA	$9 59	$9 63	NA	$8 80	NA	$11 28	NA	$9 03
2-wire VG Local Channel/DS1 I nteroffice Channel - Dedicated T ransport EEL										
2-wire VG Local Channel per month	ULDV2	$14 61	$18 02	$16 28	$22 26	$14 94	$17 83	$14 82	$16 83	$19 02
DS1 Interoffice Channel - Dedicated Transport EEL - Per Mile per month	1L5XX	$0 69	$0 60	$0 31	$0 45	$0 78	$0 66	$0 5753	$0 76	$0 35
DS1 Interoffice Channel - Dedicated Transport EEL - Facility Termination per m	U1TF1	$79 69	$99 79	$63 39	$55 05	$93 40	$74 40	$71 29	$94 98	$75 83
DS1 Channelization System per system per month	MQ1	$139 58	$163 88	$137 97	$200 01	$209 87	$146 87	$177 72	$179 81	$165 21
DS1 Channelization Interface -VG per m onth	1D1VG	$1 26	$1 78	$2 20	$1 40	$1 62	$1 45	$1 64	$1 93	$1 25
NRC - Switch As Is - EEL- 1st	UNCCC	$14 37	$16 86	$12 97	$16 86	$12 70	$15 41	$16 86	$28 87	$16 86
NRC - Switch As Is - EEL - Add'l	UNCCC	$13 33	$15 48	$11 27	$15 48	$11 10	$13 33	$15 48	$28 35	$15 48
NRC - Switch As Is - EEL - Disconnect - 1st	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Disconnect - Add'l	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Manual vs. Elect - 1st	SOMAC	$56 43	$51 31	$45 46	$51 31	$42 70	$55 41	$51 31	$56 54	$51 31
NRC - Switch As Is - EEL- Manual vs. Elect - Add'l	SOMAC	$19 15	$17 56	$15 72	$17 56	$14 77	$19 16	$17 56	$19 02	$17 56
INTERIM NRCs FOR *NEW* EEL SUBJECT TO TRUE-UP:			Orlando, Miami, Ft Laud FL			New Orleans LA		Greensboro Charlotte NC		Nashville TN
NRC - 2-wire VG - Local Channel - 1st	SOMAC	NA	$477 33	$401 69	NA	$430 71	NA	$553 80	NA	$287 79
NRC - 2-wire VG - Local Channel - Add'l	SOMAC	NA	$124 32	$70 82	NA	$74 41	NA	$86 69	NA	$39 50
NRC - DS1 - Facility Termination - 1st	SOMAC	NA	$45 91	$166 01	NA	$186 69	NA	$217 17	NA	$195 68
NRC - DS1 - Facility Termination - Add'l	SOMAC	NA	$44 18	$130 69	NA	$149 23	NA	$163 75	NA	$156 47
NRC - DS1 Channelization System - 1st	SOMAC	NA	$235 06	$240 96	NA	$220 07	NA	$301 74	NA	$222 87
NRC - DS1 Channelization System - Add'l	SOMAC	NA	$142 56	$148 03	NA	$135 20	NA	$182 57	NA	$135 80
NRC - DS1 Channelization VG Interface - 1st	SOMAC	NA	$13 39	$13 45	NA	$12 29	NA	$15 76	NA	$12 61

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
ENHANCED EXTENDED LINKS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - DS1 Channelization VG Interface - Add'l	SOMAC	NA	$9 59	$9.63	NA	$8 80	NA	$11 28	NA	$9 03
4-wire VG Local Channel/DS1 Interoffice Channel - Dedicated Transport EEL										
4-wire VG Local Channel per month	ULDV4	$15 77	$19 01	$17 18	$23 38	$16 21	$19 03	$15 87	$18 05	$20 14
DS1 Interoffice Channel - Dedicated Transport EEL - Per Mile per month	1L5XX	$0 69	$0 60	$0 31	$0 45	$0 78	$0 66	$0 5753	$0 76	$0 35
DS1 Interoffice Channel - Dedicated Transport EEL - Facility Termination per m	U1TF1	$79 69	$99 79	$63 39	$55 05	$93 40	$74 40	$71 29	$94 98	$75 83
DS1 Channelization System per system per month	MQ1	$139 58	$163 88	$137 97	$200 01	$209 87	$146 87	$177 72	$179 81	$165 21
DS1 Channelization Interface -VG per month	1D1VG	$4 53	$6 31	$2 20	$8 52	$7 55	$5 58	$4 61	$9 69	$1 91
NRC - Switch As Is - EEL- 1st	UNCCC	$14 37	$16 86	$12 97	$16 86	$12 70	$15 41	$16 86	$28 87	$16 86
NRC - Switch As Is - EEL - Add'l	UNCCC	$13 33	$15 48	$11 27	$15 48	$11 10	$13 33	$15 48	$28 35	$15 48
NRC - Switch As Is - EEL - Disconnect - 1st	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Disconnect - Add'l	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Manual vs. Elect - 1st	SOMAC	$56 43	$51 31	$45 46	$51 31	$42 70	$55 41	$51 31	$56 54	$51 31
NRC - Switch As Is - EEL- Manual vs. Elect - Add'l	SOMAC	$19 15	$17 56	$15 72	$17 56	$14 77	$19 16	$17 56	$19 02	$17 56
INTERIM NRCs FOR *NEW* EEL SUBJECT TO TRUE-UP:			Orlando, Miami, Ft Laud FL			New Orleans LA		Greensboro Charlotte NC		NashvilleTN
NRC - 4-wire Local Channel - VG - 1st	SOMAC	NA	$77 33	$387 38	NA	$433 31	NA	$562 23	NA	$287 94
NRC - 4-wire Local Channel - VG - Add'l	SOMAC	NA	$124 32	$72 47	NA	$88 07	NA	$92 67	NA	$54 18
NRC - DS1 - Facility Termination - 1st	SOMAC	NA	$45 91	$166 01	NA	$186 69	NA	$217 17	NA	$195 68
NRC - DS1 - Facility Termination - Add'l	SOMAC	NA	$44 18	$130 69	NA	$149 23	NA	$163 75	NA	$156 47
NRC - DS1 Channelization System - 1st	SOMAC	NA	$235 06	$240 96	NA	$220 07	NA	$301 74	NA	$222 87
NRC - DS1 Channelization System - Add'l	SOMAC	NA	$142 56	$148 03	NA	$135 20	NA	$182 57	NA	$135 80
NRC - DS1 Channelization System Interface VG - 1st	SOMAC	NA	$13 39	$13 45	NA	$12 29	NA	$15 76	NA	$12 61
NRC - DS1 Channelization System Interface - Add'l	SOMAC	NA	$9 59	$9 63	NA	$8 80	NA	$11 28	NA	$9 03
DS1 Loop/DS1 Interoffice Channel - Dedicated Transport EEL										
DS1 Loop, per month, statewide	USLXX	$64 65	$80 00	$60 88	$67 96	$72 86	$69 59	$62 78	$72 55	TBD
DS1 Loop, per month, Zone 1 (Note 1)	TBD	NA	NA	$52 40	NA	NA	NA	NA	NA	NA
DS1 Loop, per month, Zone 2 (Note 1)	TBD	NA	NA	$60 51	NA	NA	NA	NA	NA	NA
DS1 Loop, per month, Zone 3 (Note 1)	TBD	NA	NA	$96 18	NA	NA	NA	NA	NA	NA
DS1 Loop, per month, Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
DS1 Interoffice Channel - Dedicated Transport EEL - Per Mile per month	1L5XX	$0 69	$0 60	$0 31	$0 45	$0 78	$0 66	$0 5753	$0 76	$0 35
DS1 Interoffice Channel - Dedicated Transport EEL - Facility Termination per m	U1TF1	$79 69	$99 79	$63 39	$55 05	$93 40	$74 40	$71 29	$94 98	$75 83
NRC - Switch As Is - EEL- 1st	UNCCC	$14 37	$16 86	$12 97	$16 86	$12 70	$15 41	$16 86	$28 87	$16 86
NRC - Switch As Is - EEL - Add'l	UNCCC	$13 33	$15 48	$11 27	$15 48	$11 10	$13 33	$15 48	$28 35	$15 48
NRC - Switch As Is - EEL - Disconnect - 1st	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Disconnect - Add'l	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Manual vs. Elect - 1st	SOMAC	$56 43	$51 31	$45 46	$51 31	$42 70	$55 41	$51 31	$56 54	$51 31
NRC - Switch As Is - EEL- Manual vs. Elect - Add'l	SOMAC	$19 15	$17 56	$15 72	$17 56	$14 77	$19 16	$17 56	$19 02	$17 56
INTERIM NRCs FOR *NEW* EEL SUBJECT TO TRUE-UP:			Orlando, Miami, Ft Laud FL			New Orleans LA		Greensboro Charlotte NC		NashvilleTN
NRC - DS1 Loop - 1st	SOMAC	NA	NA	$448 92	NA	NA	NA	$714 84	NA	NA
NRC - DS1 Loop - Add'l	SOMAC	NA	NA	$276 60	NA	NA	NA	$421 47	NA	NA
NRC - DS1 Interoffice Channel - Facility Termination - 1st	SOMAC	NA	$45 91	$166 01	NA	$186 69	NA	$217 17	NA	$195 68
NRC - DS1Interoffice Channel - Facility Termination - Add'l	SOMAC	NA	$44 18	$130 69	NA	$149 23	NA	$163 75	NA	$156 47
DS1 Loop/DS3 Interoffice Channel - Dedicated Transport EEL										
DS1 Loop, per month, statewide	USLXX	$64 65	$80 00	$60 88	$67 96	$72 86	$69 59	$62 78	$72 55	TBD
DS1 Loop, per month, Zone 1 (Note 1)	TBD	NA	NA	$52 40	NA	NA	NA	NA	NA	NA
DS1 Loop, per month, Zone 2 (Note 1)	TBD	NA	NA	$60 51	NA	NA	NA	NA	NA	NA
DS1 Loop, per month, Zone 3 (Note 1)	TBD	NA	NA	$96 18	NA	NA	NA	NA	NA	NA
DS1 Loop, per month, Zone 4 (Note 1)	TBD	NA	NA	NA	NA	NA	NA	NA	NA	NA
DS3 Interoffice Channel - Dedicated Transport EEL - Per Mile per month	1L5XX	$11 93	$10 25	$6 46	$12 06	$16 15	$13 48	$12 98	$19 14	$6 88
DS3 Interoffice Channel - Dedicated Transport EEL - Facility Termination per m	U1TF3	736 6	994 83	$717 60	$1,112 02	$1,131 09	$686 84	$720 38	$904 49	$840 61
DS3 Channelization System per system per month	MQ3	$210 87	$213 22	$202 91	$236 32	$245 84	$229 30	$226 81	$204 07	$225 59

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
ENHANCED EXTENDED LINKS

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
DS3 Channelization Interface -DS1 per m onth	1PQE1	$4 53	$6 31	$0 67	$8 52	$7 55	$5 58	$4 61	$9 69	$3 91
NRC - Switch As Is - EEL- 1st	UNCCC	$14 37	$16 86	$12 97	$16 86	$12 70	$15 41	$16 86	$28 87	$16 86
NRC - Switch As Is - EEL - Add'l	UNCCC	$13 33	$15 48	$11 27	$15 48	$11 10	$13 33	$15 48	$28 35	$15 48
NRC - Switch As Is - EEL - Disconnect - 1st	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Disconnect - Add'l	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Manual vs. Elect - 1st	SOMAC	$56 43	$51 31	$45 46	$51 31	$42 70	$55 41	$51 31	$56 54	$51 31
NRC - Switch As Is - EEL- Manual vs. Elect - Add'l	SOMAC	$19 15	$17 56	$15 72	$17 56	$14 77	$19 16	$17 56	$19 02	$17 56
INTERIM NRCs FOR *NEW* EEL SUBJECT TO TRUE-UP:			Orlando, Miami, Ft Laud FL			New Orleans LA		Greensboro Charlotte NC		Nashville TN
NRC - DS1 Loop - 1st	SOMAC	NA	NA	$53 46	NA	NA	NA	$714 84	NA	NA
NRC - DS1 Loop - Add'l	SOMAC	NA	NA	$319 54	NA	NA	NA	$421 47	NA	NA
NRC - DS3 - Interoffice Channel - Facility Termination - 1st	SOMAC	NA	$879 42	$959 44	NA	$882 49	NA	$794 94	NA	$905 50
NRC - DS3 - Interoffice Channel - Facility Termination - Add'l	SOMAC	NA	$542 41	$623 26	NA	$573 28	NA	$579 55	NA	$565 26
NRC - DS3 Channelization System - 1st	SOMAC	NA	$408 24	$453 17	NA	$413 85	NA	$428 07	NA	$423 18
NRC - DS3 Channelization System - Add'l	SOMAC	NA	$301 27	$320 09	NA	$292 33	NA	$298 37	NA	$298 48
NRC - DS3 Channelization System DS1 Interface - 1st	SOMAC	NA	$13 39	$13 45	NA	$12 29	NA	$15 76	NA	$12 61
NRC - DS3 Channelization System DS1 Interface - Add'l	SOMAC	NA	$9 59	$9 63	NA	$8 80	NA	$11 28	NA	$9 03
DS-1 Local Channel/ DS-3 Interoffice Channel - Dedicated T ransport EEL										
DS1 Local Channel per month	TMECS	$35 52	$44 35	$38 57	$43 80	$43 80	$38 91	$35 68	$37 20	$40 27
DS3 Interoffice Channel - Dedicated Transport EEL - Per Mile per month	1L5XX	$11 93	$10 25	$6 46	$12 06	$16 15	$13 48	$12 98	$19 14	$6 88
DS3 Interoffice Channel - Dedicated Transport EEL - Facility Termination per m	U1TF3	$736 60	$994 63	$717 60	$1,112 02	$1,131 09	$686 84	$720 38	$904 49	$840 61
DS3 Channelization System per system per month	MQ3	$210 87	$213 22	$202 91	$2 94	$3 12	$2 86	$2 88	$3 36	$2 46
DS3 Channelization Interface -DS1 per m onth	1PQE1	$4 53	$6 31	$0 67	$1 40	$1 62	$1 45	$1 64	$1 93	$1 25
NRC - Switch As Is - EEL- 1st	UNCCC	$14 37	$16 86	$12 97	$16 86	$12 70	$15 41	$16 86	$28 87	$16 86
NRC - Switch As Is - EEL - Add'l	UNCCC	$13 33	$15 48	$11 27	$15 48	$11 10	$13 33	$15 48	$28 35	$15 48
NRC - Switch As Is - EEL - Disconnect - 1st	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Disconnect - Add'l	UNCCC	$15 21	$13 92	$12 61	$13 92	$12 66	$15 21	$13 92	TBA	$13 92
NRC - Switch As Is - EEL - Manual vs. Elect - 1st	SOMAC	$56 43	$51 31	$45 46	$51 31	$42 70	$55 41	$51 31	$56 54	$51 31
NRC - Switch As Is - EEL- Manual vs. Elect - Add'l	SOMAC	$19 15	$17 56	$15 72	$17 56	$14 77	$19 16	$17 56	$19 02	$17 56
INTERIM NRCs FOR *NEW* EEL SUBJECT TO TRUE-UP:			Orlando, Miami, Ft Laud FL			New Orleans LA		Greensboro Charlotte NC		Nashville TN
NRC -DS1 Local Channel - 1st	SOMAC	NA	$246 50	$400 37	NA	$434 53	NA	$534 48	NA	$377 96
NRC -DS1 Local Channel - Add'l	SOMAC	NA	$230 49	$312 89	NA	$341 09	NA	$462 69	NA	$277 31
NRC- DS3 Interoffice Channel - Facility Termination - 1st	SOMAC	NA	$884 71	977 44	NA	982 64	NA	$794 94	NA	980 45
NRC- DS3 Interoffice Channel - Facility Termination - Add'l	SOMAC	NA	$552 61	641 1	NA	644 52	NA	$579 55	NA	643 07
NRC - DS3 Channelization System - 1st	SOMAC	NA	$344 18	$386 41	NA	$352 89	NA	$476 24	NA	$362 09
NRC - DS3 Channelization System - Add'l	SOMAC	NA	$248 67	$264 84	NA	$241 87	NA	$321 89	NA	$248 17
NRC - DS3 Channelization System DS1 Interface - 1st	SOMAC	NA	$13 39	$13 45	NA	$12 29	NA	$15 76	NA	$12 61
NRC - DS3 Channelization System DS1 Interface - Add'l	SOMAC	NA	$9 59	$9 63	NA	$8 80	NA	$11 28	NA	$9 03

Notes:
1 Deaveraged zone rates will be available May 1, 2000.

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
OSS/SWA 8XX/DATABASES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
Operational Support System										
RC - OSS OLEC Daily Usage File: Recording, Per Message	TBD	$0 0002	$0 008	$0 0001275	$0 0008611	$0 00019	$0 0001179	$0 0003	$0 0002862	$0 008
RC- OSS OLEC Daily Usage File: Message Processing, Per Message	TBD	$0 0033	$0 004	$0 0082548	$0 0032357	$0 0024	$0 0032089	$0 0032	$0 0032344	$0 004
RC - OSS OLEC Daily Usage File: Message Distribution, Per Magnetic Tape	TBD	$55 19	$54 95	$28 25	$55 68	$47 3000	$54 62	$54 61	$54 72	$54 95
RC - OSS OLEC Daily Usage File: Data Transmission (CONNECT:DIRECT),	TBD	$0 00004	$0 001	$0 0000434	$0 0000365	$0 0000300	$0 0000354	$0 00004	$0 0000357	$0 001
Access Daily Usage File (ADUF)										
RC - ADUF, Message Processing, per message	TBD	$0 004	$0 004	$0 0136327	$0 004	$0 004	$0 004	$0 004	$0 004	$0 004
RC - ADUF, Message Distribution, per Magnetice Tape provisioned	TBD	$54 95	$54 95	$28 85	$54 95	$54 95	$54 95	$54 95	$54 95	$54 95
RC - ADUF, Data Transmission (CONNECT:DIRECT), per message	TBD	$0 001	$0 001	$0 0000434	$0 001	$0 001	$0 001	$0 001	$0 001	$0 001
Enhanced Optional Daily Usage File (EODUF)										
Enhanced Optional Daily Usage File: Message Processing, Per Message	TBD	$0 004	$0 004	$0 0034555	$0 004	$0 004	$0 004	$0 004	$0 004	$0 004
Enhanced Optional Daily Usage File: Message Processing, per magnetic tape	TBD	$47 30	$47 30	$47 30	$47 30	$47 30	$47 30	$47 30	$47 30	$47 30
Enhanced Optional Daily Usage File: Data Transmission (CONNECT:DIRECT),	TBD	$0 0000364	$0 0000364	NA	$0 0000364	$0 0000364	$0 0000364	$0 0000364	$0 0000364	$0 0000364
8XX/Toll Free Service				TBD						
8XX Access Ten Digit Screening (all types), per call (Note 2)	N/A	$0 0005	NA	$0 0004868	NA	$0 0005305	$0 0005321	$0 00050	$0 0005227	NA
8XX Access Ten Digit Screening Svc. W/8XX No. Delivery										
per query	N/A	NA	NA	NA	$0 0010	NA	NA	$0 00365	NA	$0 004
for 8XX Numbers, with Optional Complex Features, per query	N/A	NA	NA	NA	$0 0011	NA	NA	$0 00431	NA	$0 004
8XX Access Ten Digit Screening Svc. W/POTS No. Delivery										
per query	N/A	NA	NA	NA	$0 0010	NA	NA	$0 00383	NA	$0 004
with Optional Complex Features, per query	N/A	NA	NA	NA	$0 0011	NA	NA	$0 00431	NA	$0 004
8XX Access Ten Digit Screening Svc. W/800 No. Delivery										
per message	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA
for 8XX Numbers, w/Optional Complex Features, per message	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA
8XX Access Ten Digit Screening Svc. W/POTS No. Delivery										
per message	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA
with Optional Complex Features, per message	N/A	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reservation Charge per 8XX number reserved										
NRC - 1st	N8R1X	$7 13	NA	$6 57	$10 05	$6 29	$8 46	$7 05	$6 38	$30 00
NRC - Addl'l	N8R1X	$0 97	NA	$0 76	$1 19	$0 73	$0 96	$0 96	$0 9583	$0 50
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$27 84	NA
NRC - Incremental Charge - Manual Service Order - Addl'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	NA	NA
Per 8XX # Established w/o POT S (w/8XX No.) Translations										
NRC - 1st	N/A	$15 88	NA	$12 81	$30 59	$12 27	$17 04	$23 82	$22 63	$67 50
NRC - Addl'l	N/A	$1 97	NA	$1 45	$3 22	$1 39	$1 93	$2 73	$2 73	$1 50
NRC - Disconnect Charge - 1st	N/A	$10 04	NA	NA	NA	$8 30	$11 32	NA	$42 95	NA
NRC - Disconnect Charge - Addl'l	N/A	$0 97	NA	NA	NA	$0 73	$0 96	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$41 35	NA	NA
NRC - Incremental Charge - Manual Service Order - Addl'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	$17 75	NA	NA	NA	$11 40	$16 05	NA	NA	NA
Per 8XX # Established with POT S Translations										
NRC - 1st	N8FTX	$15 88	NA	$12 81	$30 59	$12 27	$17 04	$23 82	$22 63	$67 50
NRC - Addl'l	N8FTX	$1 97	NA	$1 45	$3 22	$1 39	$1 93	$2 73	$2 73	$1 50
NRC - Disconnect Charge - 1st	N8FTX	$10 04	NA	NA	NA	$8 30	$11 32	NA	$42 95	NA
NRC - Disconnect Charge - Addl'l	N8FTX	$0 97	NA	NA	NA	$0 73	$0 96	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$41 35	NA	NA
NRC - Incremental Charge - Manual Service Order - Addl'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	$17 75	NA	NA	NA	$11 40	$16 05	NA	NA	NA
Customized Area of Service per 8XX Number										
NRC - 1st	N8FCX	$5 69	NA	$4 46	$6 97	$4 27	$5 63	$5 63	$5 64	$3 00
NRC - Addl'l	N8FCX	$2 85	NA	$2 23	$3 49	$2 14	$2 81	$2 82	$2 82	$1 50
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Addl'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	NA	NA
Multiple Inter LATA Carrier Routing per Carrier Requested per 8XX #										
NRC - 1st	N8FMX	$6 66	NA	$5 22	$8 16	$5 00	$6 59	$6 59	$6 60	$1 50

BELLSOUTH/GLOBAL CROSSING RATES
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DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - Add'l	N8FMX	$3 81	NA	$2 99	$4 67	$2 86	$3 77	$3 77	$3 78	$2 00
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	NA	NA
Change Charge per request										
NRC - 1st	N8FAX	$8 10	NA	$7 33	$11 24	$7 01	$9 42	$8 01	$7 34	$48 50
NRC - Add'l	N8FAX	$0 97	NA	$0 76	$1 19	$0 73	$0 96	$0 96	$0 9583	$0 50
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$26 94	$27 84	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	NA	NA
Call Handling and Destination Features										
NRC - 1st	N8FDX	$5 69	NA	$4 72	$6 97	$4 27	$5 63	$5 63	$5 64	$3 00
NRC - Add'l	N8FDX	NA	NA	$4 46	$6 97	$4 27	$5 63	NA	$5 64	$3 00
LINE INFORMATION DATABASE										
LIDB Common Transport per query	OQT	$0 00004	$0 0003	$0 0000338	$0 00006	$0 0000418	$0 0000446	$0 0003	$0 0000442	$0 0003
LIDB Validation per query	OQU	$0 041003	$0 041003	$0 0105974	$0 00938	$0 0103774	$0 0142132	$0 013400	$0 0141003	$0 041003
LIDB Originating Point Code Establishm ent or Change - NRC	N/A	$64 36	NA	$50 30	$107 60	$48 17	$63 63	$91 00	$61 62	NA
NRC - Incremental Charge - Electronic Service Order	TBD	NA	NA	NA	NA	NA	NA	$62 26	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$25 93	NA	$18 94	NA	$18 14	$25 52	$89 20	$27 84	$91 00
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	NA	NA	NA	NA	NA	$27 84	NA
CCS7 SIGNALING										
CCS7 Signaling Connection, per link (A link) per month		$18 79	$5 00	$17 05	$16 31	$19 48	$21 58	$155 00	$21 79	$155 00
NRC		$171 98	$400 00	$131 96	$354 95	$126 34	$169 72	$510 00	$277 07	$510 00
NRC - Disconnect		$135 70	NA	NA	NA	$101 10	$134 08	NA	$42 95	NA
NRC - Incremental Charge - Manual Service Order	SOMAN	$25 93	NA	$18 94	NA	$18 14	$25 52	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	$16 31	NA	NA	NA	$11 40	$16 05	NA	NA	NA
CCS7 Signaling Connection, per link (B link) (also known as D link) per m onth		$18 79	$5 00	$17 05	$16 31	$19 48	$21 58	$155 00	$21 79	Not available
NRC		$171 98	$400 00	$131 96	$354 95	$126 34	$169 72	$510 00	$277 07	$510 00
NRC - Disconnect		$135 70	NA	NA	NA	$101 10	$134 08	NA	$42 95	NA
NRC - Incremental Charge - Manual Service Order	SOMAN	$25 93	NA	$18 94	NA	$18 14	$25 52	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	$16 31	NA	NA	NA	$11 40	$16 05	NA	NA	NA
CCS7 Signaling T ermination, per STP port per month		$148 72	$113 00	$133 99	$174 08	$161 99	$161 12	$132 88	$156 33	$355 00
CCS7 Signaling Usage, per I SUP message		$0 00004	$0 00001	$0 0000354	$0 000037893	$0 0000430	$0 0000456	$0 00004	$0 0000452	$0 000023
(applicable when measurem ent and billing capability exists.)										
CCS7 Signaling Usage, per T CAP message		$0 0001	$0 00004	$0 0000870	$0 000102042	$0 0001052	$0 0001115	$0 00009	$0 0001108	$0 00005
(applicable when measurem ent and billing capability exists.)										
CCS7 Signaling Usage Surrogate, per link per LA TA per mo (9)		$376 12	$64 00	$340 67	$329 98	$406 71	$406 53	$338 98	$396 55	$395 00
CCS7 Signaling Point Code, Establishm ent or Change, per STP affected										
NRC		$62 00	$62 00	$62 00	$62 00	$62 00	$62 00	$62 00	$62 00	$62 00
OPERATOR CALL PROCESSING										
Operator Provided Call Handling per m in - Using BST LIDB	N/A	$1 21	$1 00	$0 9680296	$1 6016	$0 91	$1 19	$1 20	$1 21	NA
Call Completion Access T ermination Charge per call attempt	N/A	$0 08	NA	NA	NA	NA	NA	NA	$0 08	NA
Operator Provided Call Handling per m in - Using Foreign LIDB	N/A	$1 25	$1 00	$1 02	$1 6249	$0 96	$1 24	$1 24	$1 25	NA
Call Completion Access T ermination Charge per call attempt	N/A	$0 08	NA	NA	NA	NA	NA	NA	$0 08	NA
Operator Provided Call Handling, per call	N/A	NA	NA	NA	NA	NA	NA	NA	NA	$0 30
Fully Automated Call Handling per call - Using BST LIDB	N/A	$0 11	$0 10	$0 0776409	$0 0856	$0 10	$0 1072884	$0 11	$0 1115808	$0 15
Fully Automated Call Handling per call - Using Foreign LI DB	N/A	$0 13	$0 10	$0 0976984	$0 1071	$0 12	$0 1253666	$0 12	$0 1293459	$0 15
Professional recording of nam e (OCP alone)	USOD1	$7,000 00	$7,000 00	$7,000 00	$7,000 00	$7,000 00	$7 000 00	$7 000 00	$7 000 00	$7 000 00
Professional recording of nam e (DA and OCP alone)	USOD1	$7,000.00	$7,000.00	$7,000 00	$7,000 00	$7,000 00	$7 000 00	$7 000 00	$7 000 00	$7 000 00
DRAM or front-end loading, per T OPS switch	USOD2	$250 00	$250 00	$250 00	$250 00	$250 00	$250 00	$250 00	$250 00	$250 00
AABS or back-end loading, per I VS	USOD2	$225 00	$225 00	$225 00	$225 00	$225 00	$225 00	$225 00	$225 00	$225 00
EBAS or 6- automation loading, per NA V shelf	USOD2	$270 00	$270 00	$270 00	$270 00	$270 00	$270 00	$270 00	$270 00	$270 00
Recording Charge per Branded A nnouncem ent – Disconnect – Initial	N/A	$9 61	NA	NA	NA	NA	NA	NA	NA	NA
Recording Charge per Branded A nnouncem ent – Disconnect – Subsequent	N/A	$9 61	NA	NA	NA	NA	NA	NA	NA	NA
INWARD OPERATOR SERVICES										

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DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
Verification, per minute	N/A	$1 16	NA	$0 921083	NA	$0 86	$1 14	$1 15	$1 15	NA
Verification and Emergency Interrupt, per minute	N/A	$1 16	NA	$0 921083	NA	$0 86	$1 14	$1 15	$1 15	NA
Verification, per call	VIL	NA	$0 80	NA	$1 00	NA	NA	$0 54	NA	$0 90
Verification and Emergency Interrupt, per call	N/A	NA	$1.00	NA	$1 111	NA	NA	$0 65	NA	$1 95
DIRECTORY ASSISTANCE SERVICES										
Directory Assist Call Completion Access Svc (DACC), per call attempt	N/A	$0 0598	$0 03	$0 0348712	$0 058	$0 04	$0 0425585	$0 062	$0 0638883	$0 12
Call Completion Access Term charge per completed call	N/A	NA	NA	NA	NA	NA	NA	NA	$0 08	NA
Number Services Intercept per query	N/A	$0 0235	$0.01	$0.0097497	$0 0086	$0 02	$0 0188268	$0 0110	$0 0124036	$0 15
Number Services Intercept per Intercept Query Update	N/A	NA	NA	NA	$0 0055	NA	NA	NA	NA	NA
Directory Assistance Access Service Calls, per call		$0.26	$0.25	$0.2124568	$0 3136	$0 20	$0 2617159	$0 260000	$0 2619983	NA
Professional recording of name (DA alone)		$3,000 00	$3,000 00	$3,000 00	$3,000 00	$3,000 00	$3,000 00	$3 000 00	$3,000 00	$3,000 00
Professional recording of name (DA and OCP alone)		$7,000 00	$7,000 00	$7,000 00	$7,000 00	$7,000 00	$7,000 00	$7,000 00	$7,000 00	$7,000 00
DRAM or front-end loading, per TOPS switch		$250 00	$250 00	$250 00	$250 00	$250 00	$250 00	$250 00	$250 00	$250 00
AABS or back-end loading, per IVS		$225.00	$225 00	$225 00	$225 00	$225 00	$225 00	$225 00	$225 00	$225 00
EBAS or 8- automation loading, per NAV shelf		$270.00	$270.00	$270.00	$270 00	$270 00	$270 00	$270 00	$270 00	$270 00
Recording Charge per Branded Announcement – Disconnect – Initial	N/A	$9.61	NA	NA	NA	NA	NA	NA	NA	NA
Recording Charge per Branded Announcement – Disconnect – Subsequent	N/A	$9.61	NA	NA	NA	NA	NA	NA	NA	NA
[redacted]										
Directory Transport - Local Channel DS1, per month	N/A	$35.52	$43.64	$38 36	$36 32	$43 83	$38 91	$35 68	$37 20	$133 81
NRC - 1st	N/A	$503 57	$242 45	$356 15	$637 46	$339 69	$494 83	$534 48	$534 81	$868 97
NRC - Add'l	N/A	$442 84	$226 44	$312 89	$546 94	$298 29	$435 28	$462 69	$462 81	$486 83
NRC - Disconnect Charge - 1st	N/A	$46 28	NA	NA	NA	$33 02	$46 85	NA	NA	NA
NRC - Disconnect Charge - Add'l	N/A	$32 18	NA	NA	NA	$23 32	$33 02	NA	NA	NA
NRC - Incremental Charge-Manual Svc Order - NRC - 1st	SOMAN	$61.99	NA	$44 22	NA	$42 34	$59 58	$86 15	$87 99	NA
NRC - Incremental Charge-Manual Svc Order - NRC -addl	TBD	NA	NA	NA	NA	NA	NA	$1 77	NA	NA
NRC - Incremental Charge-Manual Svc Order - NRC-Disconnect	SOMAN	$29 27	NA	NA	NA	$19 48	$27 41	NA	$3 11	NA
Directory Transport - Dedicated DS1 Level Interoffice per mile per mo	N/A	$0.6923	$0.6013	$0.4523	$0 45	$0 78	$0 6598	$0 5753	$0 7598	$23 00
Directory Transport - Dedicated DS1 Level Interoffice per facility termination per	N/A	$79.69	$99 79	$78.47	$55 05	$93 40	$74 40	$71 29	$94 98	$90 00
NRC - 1st	N/A	$198.15	$45.91	$147 07	$298 18	$140 49	$196 28	$217 17	$216 27	$100 49
NRC - Add'l	N/A	$148.18	$44.18	$111.75	$231 18	$106.69	$147 31	$163 75	$162 70	$100 49
NRC - Disconnect Charge - 1st	N/A	$25.44	NA	NA	NA	$20 00	$26 56	NA	NA	NA
NRC - Disconnect Charge - Add'l	N/A	$20.42	NA	NA	NA	$16 34	$21 61	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27.37	NA	$18.94	NA	$18 14	$25 52	$38 07	$39 63	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$27 37	NA	NA	NA	$18 14	$25 52	$38 07	$39 63	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$12.97	NA	NA	NA	$8 06	$11 34	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - Add'l	SOMAN	$12.97	NA	NA	NA	$8 06	$11 34	NA	NA	NA
Switched Common Transport per DA Access Service per call	N/A	$0 0003	$0 0003	$0 0002906	$0 000175	$0 0003274	$0 0002997	$0 00020	$0 000327	NA
Switched Common Transport per DA Access Service per call per mile	N/A	$0.00003	$0 00001	$0 0000186	$0 000004	$0 0000175	$0 0000202	$0 00003	$0 0000303	NA
Access Tandem Switching per DA Access Service per call	N/A	$0.0023	$0.00055	$0 0019152	$0 000783	$0 0025257	$0 0023713	$0 0021	$0 0024809	NA
DA Interconnection, per DA Access Service Call	N/A	$0.00269	NA	$0 00269	NA	NA	NA	$0 00	$0 000269	NA
Directory Transport-Installation NRC, per trunk or signaling connection	N/A									
NRC - 1st	N/A	$260 69	$206 06	$204 23	$501 98	$195 54	$257 73	BSTs FCC 1	$407 81	NA
NRC - Add'l	N/A	$5 95	$4.71	$4 42	$13 32	$4 23	$5 85	BSTs FCC 1	$11 00	NA
NRC - Disconnect Charge - 1st	N/A	$173 46	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Disconnect Charge - Add'l	N/A	$5 95	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	NA	NA	$44 22	NA	$130 05	$171 49	$407 53	NA	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	NA	NA	NA	NA	$4 23	$5 85	$10 98	NA	NA
[redacted]										
Directory Assistance Database Service charge per listing	N/A	$0.0446	$0.001	$0.0445	$0.0193	$0.0443	$0.0447	$0.04460	$0.0444	NA
Directory Assistance Database Service, per month	DBSOF	$128 55	$100.00	$95 50	$120 76	$90 54	$126 17	$126 26	$127 23	NA
[redacted]										
Direct Access to Directory Assistance Service, per month	DBSDS	$7,055 00	$5,000 00	$5,254 00	$7,235 01	$4,982 00	$6,926 00	$6,930 00	$6,983 00	NA
Direct Access to Directory Assistance Service, per query	DBSDA	$0 0472685	$0 01	$0.0469016	$0 0052	$0 0460	$0 0461336	$0 0456	$0 0468212	NA

BELLSOUTH/GLOBAL CROSSING RATES
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DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
Directory Access to Directory Assistance Service, svc estab charge	DBSDE									
NRC	DBSDE	$1,118 00	$820 00	$788 24	$1,186 94	$786 82	$1,097 00	$1,164 00	$1,173 00	NA
NRC - Disconnect	DBSDE	$81 83	NA	NA	NA	NA	NA	NA	NA	NA
NRC - Incremental Charge Manual Service Order - 1st	SOMAN	NA	NA	NA	NA	$57 23	$80 52	NA	NA	NA
AIN, State Charges										TBD
AIN, per message	CAM	NA	$0 00004	NA	NA	NA	NA	NA	NA	NA
AIN - BellSouth AIN SMS Access Service	CAM								NA	NA
Service Establishment Charge, per state, Initial set-up										
NRC	CAMSE	$197 49	NA	$90 25	NA	$153 31	$174 03	$294 77	$296 16	NA
NRC - Disconnect	CAMSE	$114 22	NA	NA	NA	$78 06	$135 96	NA	NA	NA
Port Connection - Dial/Shared Access										
NRC	CAMDP	$64 05	NA	$29 66	NA	$50 07	$53 47	$86 94	$87 29	NA
NRC - Disconnect	CAMDP	$27 04	NA	NA	NA	$18 61	$37 70	NA	NA	NA
Port Connection - ISDN Access										
NRC	CAM1P	$64 05	NA	$29 66	NA	$50 07	$53 47	$86 94	$87 29	NA
NRC - Disconnect	CAM1P	$27 04	NA	NA	NA	$18 61	$37 70	NA	NA	NA
User ID Codes - per User ID Code										
NRC	CAMAU	$141 84	NA	$84 43	NA	$104 95	$129 83	$200 83	$202 08	NA
NRC - Disconnect	CAMAU	$70 05	NA	NA	NA	$48 95	$79 91	NA	NA	NA
Security Card per User ID Code, Initial or replacement										
NRC	CAMRC	$142 13	NA	$35 44	NA	$125 33	$131 54	$172 05	$172 26	NA
NRC - Disconnect	CAMRC	$35 26	NA	NA	NA	$24 40	$45 77	NA	NA	NA
Storage, per unit (100Kb)	N/A	$0 0026	NA	$0 0023	NA	$0 0029	$0 0029	$0 0023	$0 0028	NA
Session per minute	N/A	$0 0692	NA	$0 0795604	NA	$0 10	$0 0975650	$0 0791	$0 0942966	NA
CO Performed Session, per minute					NA	$1 97	$2 09	$2 08	$2 07	NA
AIN - BellSouth AIN Toolkit Service										
AIN, Service Creation Tools	CAMBP	NA	TBD	NA	NA	NA	NA	NA	NA	NA
Service Establishment Charge, per state, Initial set-up										
NRC	BAPSC	$192 69	NA	$86 74	NA	$153 25	$169 31	$290 05	$291 41	NA
NRC - Disconnect	BAPSC	$114 22	NA	NA	NA	$78 05	$135 96	NA	NA	NA
Training Session, per customer										
NRC	BAPVX	$8,363 00	NA	$8,348 00	NA	$8,315 00	$8,379 00	$8,363 00	$8,333 00	NA
NRC - Disconnect	BAPVX	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trigger Access Charge, per trigger, per DN, Term. Attempt										
NRC	BAPTT	$49 64	NA	$19 13	NA	$41 08	$39 30	$72 76	$73 02	NA
NRC - Disconnect	BAPTT	$27 04	NA	NA	NA	$18 60	$37 70	NA	NA	NA
Trigger Access Charge, per trigger per DN, Off-Hook Delay										
NRC	BAPTD	$49 64	NA	$114 80	NA	$41 08	$39 30	$72 76	$73 02	NA
NRC - Disconnect	BAPTD	$27 04	NA	NA	NA	$18 60	$37 70	NA	NA	NA
Trigger Access Charge, per trigger, per DN, Off-Hook Immediate										
NRC	BAPTM	$49 64	NA	$19 13	NA	$41 08	$39 30	$72 76	$73 02	NA
NRC - Disconnect	BAPTM	$27 04	NA	NA	NA	$18 60	$37 70	NA	NA	NA
Trigger Access Charge, per trigger, per DN, 10-Digit PODP										
NRC	BAPTO	$117 98	NA	$70 06	NA	$92 99	$106 90	$149 95	$150 25	NA
NRC - Disconnect	BAPTO	$37 90	NA	NA	NA	$26 73	$48 44	NA	NA	NA
Trigger Access Charge, per trigger, per DN, CDP										
NRC	BAPTC	$117 98	NA	$70 06	NA	$92 99	$106 90	$149 95	$150 25	NA
NRC - Disconnect	BAPTC	$37 90	NA	NA	NA	$26 73	$48 44	NA	NA	NA
Trigger Access Charge, per trigger, per DN, Feature Code										
NRC	BAPTF	$117 98	NA	$70 06	NA	$92 99	$106 90	$149 95	$150 25	NA
NRC - Disconnect	BAPTF	$37 90	NA	NA	NA	$26 73	$48 44	NA	NA	NA
Query Charge, per query		$0 024	NA	$0 0209223	NA	$0 03	$0 0256138	$0 02	$0 0250662	NA
Type 1 Node Charge, per AIN Toolkit Subscription, per node, per query		$0 006	NA	$0 0053137	NA	$0 0065	$0 0065161	$0 005	$0 0062979	NA
SCP Storage Charge, per SM \$ Access Acct, per 100 Kb	N/A	$1 63	NA	$1 46	NA	$1 79	$1 79	$1 45	$1 73	NA
Monthly Report - per AIN Toolkit Service Subscription	BAPMS	$16 00	NA	$15 96	NA	$15 89	$16 01	$15 98	$15 93	NA

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
OSS/SWA 8XX/DATABASES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC	BAPMS	$44 56	NA	$22 64	NA	$34 61	$44 02	$71 80	$72 15	NA
NRC - Disconnect	BAPMS	$31 84	NA	NA	NA	$21 97	$31 28	NA	NA	NA
Special [illegible] - per AIN Toolkit Service Subscription	BAPLS	$0 10	NA	$0 0861109	NA	$0 08	$0 0810536	$0 08	$0 0872769	NA
[illegible]	BAPLS	$47 74	NA	$22 64	NA	$37 77	$47 21	$47 20	$47 35	NA
[illegible] - Disconnect	BAPLS	$15 90	NA	NA	NA	NA	NA	NA	NA	NA
C[illegible] Report - per AIN Toolkit Service Subscription	BAPDS	$15 90	NA	$15 87	NA	$15 81	$15 93	$15 90	$15 84	NA
[illegible]	BAPDS	$44 56	NA	$22 64	NA	$34 61	$44 02	$71 80	$72 15	NA
[illegible] - Disconnect	BAPDS	$31 84	NA	NA	NA	$21 97	$31 28	NA	NA	NA
Cal[illegible]d special Study - per AIN Toolkit Service Subscription	BAPES	$0 003	NA	$0 0028704	NA	$0 0026	$0 0027018	$0 003	$0 0029092	NA
NRC	BAPES	$47 74	NA	$22 64	NA	$37 77	$47 21	$47 20	$47 35	NA
NRC - Disconnect	BAPES	$15 90	NA	NA	NA	$37 77	NA	NA	NA	NA
[illegible]										
CNAM (Database Owner), Per Query	N/A	$0 016	$0 016	$0 016	$0 016	$0 016	$0 016	$0 016	$0 016	$0 016
CNAM (Non-Database Owner), Per Query *	N/A	$0 01	$0 01	$0 01	$0 01	$0 01	$0 01	$0 01	$0 01	$0 01
NRC, applicable when CLEC-1 uses the Character Based User Interface (CHUI)	N/A	$595 00	$595 00	$595 00	$595 00	$595 00	$595 00	$595 00	$595 00	$595 00
* Volume and term arrangements are also available.										
[illegible]										
Per Line or PBX Trunk, each		NA	NA	NA	$10 00 (Interim	NA	NA	NA	NA	TBD
NRC		NA	NA	NA	NA	NA	NA	NA	NA	TBD
Customized routing per unique line class code, per request, per switch						NA	NA	NA	NA	NA
NRC	USRCR	$230 60	$229 65	$180 62	$229 65	$229 65	$227 99	$229 65	$226 22	$229 65
NRC - Incremental Charge - Manual Service Order		$25 93	NA	$18 94	NA	NA	$253 51	NA	$27 84	NA
[illegible]										
NRC - Virtual Collocation - Application Cost - Manual	TBD	NA	NA	NA	NA	NA	NA	$3,622 00	NA	NA
NRC - Virtual Collocation - Cable Installation Cost per Cable - Manual	TBD	NA	NA	NA	NA	NA	NA	$2,305 00	NA	NA
RC - Virtual Collocation - Floor space per square feet	TBD	NA	NA	NA	NA	NA	NA	$3 45	NA	NA
RC - Virtual Collocation - Floor space power, per ampere	TBD	NA	NA	NA	NA	NA	NA	$6 65	NA	NA
RC - Virtual Collocation - Cable support structure, per entrance cable	TBD	NA	NA	NA	NA	NA	NA	$18 66	NA	NA
2-wire Cross-Connect										
RC	UEAC2	$0 28	$0 524	$0 30	$0 31	$0 26	$0 3996	$0 09	$0 3648	$0 30
NRC - 1st	UEAC2	$30 76	$11 57	$12 60	$54 21	$23 04	$30 93	$41 78	$41 50	$19 20
NRC - Add'l	UEAC2	$29 40	$11 57	$12 60	$51 07	$22 11	$29 59	$39 23	$38 94	$19 20
NRC - 1st - Manual Service Order	TBD	NA	NA	NA	NA	NA	NA	$4 75	NA	NA
NRC - Add'l - Manual Service Order	TBD	NA	NA	NA	NA	NA	NA	$4 75	NA	NA
NRC - Disconnect - 1st	UEAC2	$12 75	NA	NA	NA	$9 48	$12 76	NA	NA	NA
NRC - Disconnect - Add'l	UEAC2	$11 38	NA	NA	NA	$8 54	$11 43	NA	NA	NA
4-wire Cross-Connect										
RC	UEAC4	$0 56	$0 524	$0 50	$0 62	$0 52	$0 7992	$0 18	$0 7297	$0 50
NRC - 1st	UEAC4	$66 71	$11 57	$12 60	$54 23	$23 23	$31 17	$41 91	$41 56	$19 20
NRC - Add'l	UEAC4	$50 43	$11 57	$12 60	$50 96	$22 24	$29 77	$39 25	$38 90	$19 20
NRC - 1st - Manual Service Order	TBD	NA	NA	NA	NA	NA	NA	$4 73	NA	NA
NRC - Add'l - Manual Service Order	TBD	NA	NA	NA	NA	NA	NA	$4 73	NA	NA
NRC - Disconnect - 1st	UEAC4	$12 82	NA	NA	NA	$9 53	$12 83	NA	NA	NA
NRC - Disconnect - Add'l	UEAC4	$11 39	NA	NA	NA	$8 55	$11 43	NA	NA	NA
2-fiber Cross-Connect										
RC	CNC2F	$12 10	NA	$15 64	$15 64	$19 13	$15 64	$15 99	$15 06	$15 64
NRC - 1st	CNC2F	$55 46	NA	$41 56	$41 56	$41 07	$41 56	$67 34	$69 28	$41 56
NRC - Add'l	CNC2F	$39 18	NA	$29 82	$29 82	$29 63	$29 82	$48 55	$48 89	$29 82
NRC - Disconnect - 1st	CNC2F	$16 83	NA	NA	NA	$12 84	$12 96	NA	NA	NA
NRC - Disconnect - Add'l	CNC2F	$13 27	NA	NA	NA	$10 29	$10 34	NA	NA	NA
4-fiber Cross-Connect										
RC	CNC4F	$21 75	NA	$28 11	$28 11	$34 38	$28 11	$28 74	$27 08	$28 11
NRC - 1st	CNC4F	$66 71	NA	$50 53	$50 53	$49 81	$50 53	$82 35	$84 07	$50 53
NRC - Add'l	CNC4F	$50 43	NA	$38 78	$38 78	$38 37	$38 78	$63 56	$63 68	$38 78

BELLSOUTH/GLOBAL CROSSING RATES
NETWORK ELEMENTS
AND OTHER SERVICES
OSS/SWA 8XX/DATABASES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - Disconnect - 1st	CNC4F	$21.86	NA	NA	NA	$16.75	$16.97	NA	NA	NA
NRC - Disconnect - Add'l	CNC4F	$18.31	NA	NA	NA	$14.20	$14.35	NA	NA	NA
DS1 Cross-Connects										
RC	TBD	NA	NA	NA	NA	NA	NA	$0.97	NA	NA
NRC - 1st	TBD	NA	NA	NA	NA	NA	NA	$71.02	NA	NA
NRC - Add'l	TBD	NA	NA	NA	NA	NA	NA	$51.08	NA	NA
NRC - Manual Service Order - 1st	TBD	NA	NA	NA	NA	NA	NA	$4.70	NA	NA
NRC - Manual Service Order - Add'l	TBD	NA	NA	NA	NA	NA	NA	$4.70	NA	NA
DS3 Cross-Connects										
RC	TBD	NA	NA	NA	NA	NA	NA	$12.33	NA	NA
NRC - 1st	TBD	NA	NA	NA	NA	NA	NA	$69.84	NA	NA
NRC - Add'l	TBD	NA	NA	NA	NA	NA	NA	$49.43	NA	NA
NRC - Manual Service Order - 1st	TBD	NA	NA	NA	NA	NA	NA	$4.70	NA	NA
NRC - Manual Service Order - Add'l	TBD	NA	NA	NA	NA	NA	NA	$4.70	NA	NA
If no rate is identified in the contract, the rate for the specific service or function will be as set forth in applicable BellSouth tariff or as negotiated by the parties upon request by either party										
1 BellSouth and CLEC shall negotiate rates for this offering. If agreement is not reached within sixty (60) days of the Effective Date, either party may petition the Florida PSC to settle the disputed charge or charges. (FL)										
2 This rate element is for those states w/o separate rates for 800 call is with 800 No. Delivery vs. POTS No. Delivery and calls with Optional Complex Features vs. w/o Optional Complex Features.										
3 This charge is only applicable where signaling usage measurement or billing capability does not exist.										
4 Prices for AIN to be determined upon development of mediation device. (TN)										
5 Price for Line Class Codes for Selective Routing shall be determined by the TRA. (TN)										

Attachment 3

Network Interconnection

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The Parties shall provide interconnection with each other's networks for the transmission and routing of telephone exchange service (local) and exchange access (intraLATA toll and switched access) on the following terms:

1. **Network Interconnection**

All negotiated rates, terms and conditions set forth in this Attachment pertain to the provision of network interconnection.

1.1 Interconnection is available to both Parties through: (1) delivery of a Party's facilities to a collocation arrangement or Fiber Meet arrangement as defined in this Agreement; or (2) interconnection via purchase of facilities from the other Party. Interconnection may be provided by the Parties at any other technically feasible point. Requests to BellSouth for interconnection at other points may be made through the Bona Fide Request/New Business Request process set out in General Terms and Conditions.

1.2 Global Crossing must establish, at a minimum, a single Point of Presence, Interface, and Interconnection with BellSouth within the LATA for the delivery of Global Crossing's originated local and intraLATA toll traffic and for the receipt and delivery of transit traffic. If Global Crossing chooses to interconnect at a single Point of Interconnection within a LATA, the interconnection must be at a BellSouth Access Tandem. Furthermore, Global Crossing must establish Points of Interconnection at all BellSouth access and local tandems where Global Crossing NXXs are "homed." A "Homing" arrangement is defined by a "Final" Trunk Group between the BellSouth Tandem and Global Crossing End Office switch. A "Final" Trunk Group is the last choice telecommunications path between the Tandem and End Office switch. It is Global Crossing's responsibility to enter its own NPA/NXX access and/or local tandem "homing" arrangements into the national Local Exchange Routing Guide (LERG).

1.2.1 In order for Global Crossing to home its NPA/NXX(s) on a BellSouth Tandem, Global Crossing's NPA/NXX(s) must be assigned to an Exchange Rate Center Area served by that BellSouth Tandem and as specified by BellSouth. The specified association between BellSouth Tandems and Exchange Rate Center Areas is defined in the Local Exchange Routing Guide (LERG) as it is revised from time to time.

1.3 A **Point of Presence (POP)** is the physical location (a structure where the environmental, power, air conditioning, etc. specifications for a Party's terminating equipment can be met) at which a Party establishes itself for obtaining

access to the other Party's network. The POP is the physical location within which the Point of Interfaces occur.

1.4 A **Point of Interface** is the physical telecommunications interface between BellSouth and Global Crossing's interconnection functions. It establishes the technical interface and point of operational responsibility. The primary function of the Point of Interface is to serve as the terminus for the interconnection service. The Point of Interface has the following main characteristics:

1. It is a cross-connect point to allow connection, disconnection, transfer or restoration of service.
2. It is a point where BellSouth and Global Crossing can verify and maintain specific performance objectives.
3. It is specified according to the interface offered in the tariff or local interconnection agreement (for example: for DS1 service the FCC # 1 tariff specifies that the interface meets the technical specifications detailed in Generic Requirements GR-342-CORE, Issue 1, December 1995.)
4. The Parties provide their own equipment (CPE) to interface with the DS0, DS1, DS3, STS1 and/or OCn circuits on the customer premises.

1.5 The **Point of Interconnection** is the point at which the originating Party delivers its originated traffic to the terminating Party's first point of switching on the terminating Party's common (shared) network for call transport and termination. Points of Interconnection are available at either Access Tandems, Local Tandems, or End Offices as described in this Agreement. Global Crossing's requested Point of Interconnection will also be used for the receipt and delivery of transit traffic at BellSouth Access and Local Tandems. Points of Interconnection established at the BellSouth Local Tandem apply only to Global Crossing-originated local and local originating and terminating transit traffic.

1.6 Global Crossing, at its option, shall establish Points of Presence and Points of Interface for the delivery of its originated local and intraLATA toll traffic to BellSouth. The Point of Interface may not necessarily be established at the Point of Interconnection.

1.7 BellSouth, at its option, shall designate the Points of Presence and Points of Interface for the delivery of its originated local and intraLATA toll traffic to Global Crossing for call transport and termination by Global Crossing. The Point of Interface may not necessarily be established at the Point of Interconnection.

1.8 <u>Interconnection via Leased Dedicated Transport Facilities</u>

1.8.1 The originating Party may purchase Local Channel facilities from the terminating Party from the originating Party's specified Point of Interface to its serving wire

center. The Parties agree that charges for such Local Channel facilities are as set forth in Exhibit A to this Attachment. If a nonrecurring or recurring rate is not identified in Exhibit A for a Local Channel, the rate shall be as set forth in the appropriate BellSouth intrastate or interstate tariff for switched access services.

1.8.2 Additionally, either Party may purchase Dedicated Interoffice Transport facilities from its designated serving wire center to the other Party's first point of switching. The Parties agree that charges for such Dedicated Transport facilities are as set forth in Exhibit A to this Attachment. If a nonrecurring or recurring rate is not identified in Exhibit A for Dedicated Transport, the rate shall be as set forth in the appropriate BellSouth intrastate or interstate tariff for switched access services.

1.8.3 For the purposes of this Attachment, **Local Channel** is defined as a switch transport facility between a Party's Point of Presence and its designated serving wire center.

1.8.4 For the purposes of this Attachment, **Serving Wire Center** is defined as the wire center owned by one Party from which the other Party would normally obtain dial tone for its Point of Presence.

1.8.5 For the purposes of this Attachment, **Dedicated Interoffice Transport** is defined as a switch transport facility between a Party's designated serving wire center and the first point of switching on the other Party's common (shared) network.

1.9 Fiber Meet

1.9.1 **Fiber Meet** is an interconnection arrangement whereby the Parties physically interconnect their networks via an optical fiber interface (as opposed to an electrical interface) at which one Party's facilities, provisioning, and maintenance responsibility begins and the other Party's responsibility ends (i.e. Point of Interface).

1.9.2 If Global Crossing elects to interconnect with BellSouth pursuant to a Fiber Meet, Global Crossing and BellSouth shall jointly engineer and operate a Synchronous Optical Network ("SONET") transmission system by which they shall interconnect their transmission and routing of local traffic via a Local Channel facility at either the DS0, DS1, or DS3 level. The Parties shall work jointly to determine the specific transmission system. However, Global Crossing's SONET transmission must be compatible with BellSouth's equipment in the BellSouth Interconnection Wire Center. The same vendor's equipment and software version must be used, and the Data Communications Channel (DCC) must be turned off.

1.9.3 BellSouth shall, wholly at its own expense, procure, install and maintain the agreed upon SONET equipment in the BellSouth Interconnection Wire Center ("BIWC").

1.9.4 Global Crossing shall, wholly at its own expense, procure, install and maintain the agreed upon SONET equipment in the Global Crossing Interconnection Wire Center ("Global Crossing Wire Center").

1.9.5 BellSouth shall designate a Point of Interface outside the BIWC as a Fiber Meet point, and shall make all necessary preparations to receive, and to allow and enable Global Crossing to deliver, fiber optic facilities into the Point of Interface with sufficient spare length to reach the fusion splice point at the Point of Interface. BellSouth shall, wholly at its own expense, procure, install, and maintain the fusion splicing point in the Point of Interface. A Common Language Location Identification ("CLLI") code will be established for each Point of Interface. The code established must be a building type code. All orders shall originate from the Point of Interface (i.e., Point of Interface to Global Crossing, Point of Interface to BellSouth).

1.9.6 Global Crossing shall deliver and maintain such strands wholly at its own expense. Upon verbal request by Global Crossing, BellSouth shall allow Global Crossing access to the Fiber Meet entry point for maintenance purposes as promptly as possible.

1.9.7 The Parties shall jointly coordinate and undertake maintenance of the SONET transmission system. Each Party shall be responsible for maintaining the components of their own SONET transmission system.

1.9.8 Each Party will be responsible for (i) providing its own transport facilities to the Fiber Meet, and (ii) the cost to build-out its facilities to such Fiber Meet.

1.9.9 Neither Party shall charge the other for its portion of the Fiber Meet facility used exclusively for non-transit local traffic (i.e. the Local Channel). Charges incurred for other services including dedicated transport facilities to the Point of Interconnection if applicable will apply. Charges for Switched and Special Access Services shall be billed in accordance with the applicable Access Service tariff (i.e. the BellSouth Interstate or Intrastate Access Services Tariff).

2. Interconnection Trunking Architectures

2.1 BellSouth and Global Crossing shall establish interconnecting trunk groups and trunking configurations between networks including the establishment of one-way or two-way trunks in accordance with the following provisions set forth in this Agreement.

2.2 Any Global Crossing interconnection request that deviates from the standard trunking architectures as described in this Agreement that affects traffic delivered to Global Crossing from a BellSouth switch that requires special BellSouth switch translations and other network modifications will require Global Crossing to submit a Bona Fide Request/New Business Request via the Bona Fide Request/New Business Request Process set forth in General Terms and Conditions.

2.3 All terms and conditions, as well as charges, both non-recurring and recurring, associated with interconnecting trunk groups between BellSouth and Global Crossing not addressed in Exhibit A shall be as set forth in the appropriate BellSouth intrastate or interstate tariff for switched access services. For two-way trunking that carries the Parties' local and intraLATA toll traffic only, excluding trunking that carries Transit Traffic, the Parties shall be compensated for the nonrecurring and recurring charges for trunks and DS1 facilities at 50% of the applicable contractual or tariff rates for the services provided by each Party. Global Crossing shall be responsible for ordering and paying for any two-way trunks carrying transit traffic. Furthermore, Global Crossing shall be responsible for the compensation for two-way trunking that it orders for its local and intraLATA toll but utilizes unidirectionally.

2.4 Switched Access traffic will be delivered to and by IXCs based on Global Crossing's NXX Access Tandem homing arrangement as specified by Global Crossing in the national Local Exchange Routing Guide (LERG).

2.5 All trunk groups will be provisioned as Signaling System 7 (SS7) capable where technically feasible. If SS7 is not technically feasible multi-frequency (MF) protocol signaling shall be used.

2.6 In cases where Global Crossing is also an IXC, the IXC's Feature Group D (FG D) trunking must remain separate from the local interconnection trunking.

2.7 Two-Way Trunking Requirements:

The following requirements apply to two-way trunking that carries the Parties local and intraLATA toll.

1. Global Crossing will initiate two-way trunk request. The use of and quantity of two way trunking shall be mutually agreed upon and shall be jointly provisioned.

2. The Point of Interface will be located at a mutually agreed location or point designated by BellSouth. If an agreement cannot be reached on the location of the Point of Interface, each company will establish its own Point of Interface and order one-way trunks.

3. BellSouth and Global Crossing will jointly review the trunk forecast, as needed, on a periodic basis, or at least every six (6) months.

4. Global Crossing will order trunks using access service request (ASR) process in place for Local Interconnection after the joint planning meeting takes place between BellSouth and Global Crossing.

5. BellSouth and Global Crossing must agree on traffic engineering parameters that will be used in the engineering of the trunk groups.

6. BellSouth and Global Crossing must agree to meet and resolve service-affecting situations in a timely manner. This contact will normally be made through the Account Team.

7. Establishing a two-way trunk group does not preclude BellSouth or Global Crossing from adding one-way trunk groups within the same Local Calling Area.

8. For technical reasons, two-way trunk groups may not be ordered to a BellSouth DMS100 Local Tandem or DMS100 End Office.

9. BellSouth will be responsible for the installation and maintenance of its trunks and facilities to the mutually agreed Point of Interface, and Global Crossing will be responsible for the installation and maintenance of its trunks and facilities to the mutually agreed to Point of Interface.

2.8 BellSouth Access Tandem Interconnection Architectures

2.8.1 BellSouth Access Tandem Interconnection provides intratandem access to subtending end offices. BellSouth Multiple Tandem Access (MTA), described later in this Agreement, may be ordered using any of the following access tandem architectures.

2.8.2 Basic Architecture

2.8.2.1 In this architecture, Global Crossing's originating Local and IntraLATA Toll and originating and terminating Transit Traffic is transported on a single two-way trunk group between Global Crossing and BellSouth access tandem(s) within a LATA. This group carries intratandem Transit Traffic between Global Crossing

and Independent Companies, Interexchange Carriers, other CLECs and other network providers with which Global Crossing desires interconnection and has the proper contractual arrangements. This group also carries Global Crossing originated intertandem traffic transiting a single BellSouth access tandem destined to third party tandems such as an Independent Company tandem or other CLEC tandem. BellSouth originated Local and IntraLATA Toll traffic is transported on a single one-way trunk group terminating to Global Crossing. The Two-way Trunking Requirements described in this Attachment do not apply to this architecture. Other trunk groups for operator services, directory assistance, emergency services and intercept may be established if required. The LERG should be referenced for current routing and tandem serving arrangements. The Basic Architecture is illustrated in Exhibit B.

2.8.3 One-Way Trunking Architecture

2.8.3.1 In this architecture, the Parties interconnect using two one-way trunk groups. One one-way trunk group carries Global Crossing-originated local and intraLATA toll traffic destined for BellSouth end-users. ,The other one-way trunk group carries BellSouth-originated local and intraLATA toll traffic destined for Global Crossing end-users. A third two-way trunk group is established for Global Crossing's originating and terminating Transit Traffic. This group carries intratandem Transit Traffic between Global Crossing and Independent Companies, Interexchange Carriers, other CLECs and other network providers with which Global Crossing desires interconnection and has the proper contractual arrangements. This group also carries Global Crossing originated intertandem traffic transiting a single BellSouth access tandem destined to third party tandems such as an Independent Company tandem or other CLEC tandem. Other trunk groups for operator services, directory assistance, emergency services and intercept may be established if required. The LERG should be referenced for current routing and tandem serving arrangements. The One-Way Trunking Architecture is illustrated in Exhibit C.

2.8.4 Two-Way Trunking Architecture

2.8.4.1 The Two-Way Trunking Architecture establishes one two-way trunk group to carry local and intraLATA toll traffic between Global Crossing and BellSouth. To establish this architecture, Global Crossing and BellSouth must meet the Two-way Trunking Requirements described in this Attachment. In addition, a two-way transit trunk group must be established for Global Crossing's originating and terminating Transit Traffic. This group carries intratandem Transit Traffic between Global Crossing and Independent Companies, Interexchange Carriers, other CLECs and other network providers with which Global Crossing desires interconnection and has the proper contractual arrangements. This group also carries Global Crossing originated intertandem traffic transiting a single BellSouth access tandem destined to third party tandems such as an Independent Company

tandem or other CLEC tandem. Other trunk groups for operator services, directory assistance, emergency services and intercept may be established if required. The LERG should be referenced for current routing and tandem serving arrangements. The Two-Way Trunking Architecture is illustrated in Exhibit D.

2.8.5 Supergroup Architecture

2.8.5.1 In the Supergroup Architecture, the Parties Local and IntraLATA Toll and Global Crossing's Transit Traffic is exchanged on a single two-way trunk group between Global Crossing and BellSouth. To establish this architecture, Global Crossing and BellSouth must meet the Two-way Trunking Requirements described in this Attachment. This group carries intratandem Transit Traffic between Global Crossing and Independent Companies, Interexchange Carriers, other CLECs and other network providers with which Global Crossing desires interconnection and has the proper contractual arrangements. This group also carries Global Crossing originated intertandem traffic transiting a single BellSouth access tandem destined to third party tandems such as an Independent Company tandem or other CLEC tandem. Other trunk groups for operator services, directory assistance, emergency services and intercept may be established if required. The LERG should be referenced for current routing and tandem serving arrangements. The Supergroup Architecture is illustrated in Exhibit E.

2.9 BellSouth **Multiple Tandem Access (MTA)** provides for LATA wide BellSouth transport and termination of Global Crossing-originated intraLATA toll and local traffic, that is transported by BellSouth, by establishing a Point of Interconnection at a BellSouth access tandem with routing through multiple BellSouth access tandems as required. However, Global Crossing must still establish Points of Interconnection at all BellSouth access tandems where Global Crossing NXXs are "homed". If Global Crossing does not have NXXs homed at a BellSouth access tandem within a LATA and elects not to establish Points of Interconnection at such BellSouth access tandem, Global Crossing can order MTA in each BellSouth access tandem within the LATA where it does have a Point of Interconnection and BellSouth will terminate traffic to end-users served through those BellSouth access tandems where Global Crossing does not have a Point of Interconnection. MTA shall be provisioned in accordance with BellSouth's Ordering Guidelines.

2.10 MTA does not include switched access traffic that transits the BellSouth network to an Interexchange Carrier (IXC). Switched Access traffic will be delivered to and by IXCs based on Global Crossing's NXX Access Tandem homing arrangement as specified by Global Crossing in the national Local Exchange Routing Guide (LERG).

2.11 For Global Crossing-originated local and intraLATA toll traffic that BellSouth transports but is destined for termination by a third Party network (transit traffic),

BellSouth MTA is required if multiple BellSouth access tandems are necessary to deliver the call to the third Party network.

2.12 The Parties agree that compensation for the BellSouth transport and/or termination of Global Crossing's local and intraLATA toll traffic will be billed on a statewide basis at the applicable rates specified in Exhibit A to this Attachment for local traffic and at the BellSouth intrastate switched access tariff rates for intraLATA toll traffic.

2.13 To the extent Global Crossing does not purchase MTA in a calling area that has multiple access tandems serving the calling area as defined by BellSouth, Global Crossing must establish Points of Interconnection to every access tandem in the calling area in order to serve the entire calling area. To the extent Global Crossing does not purchase MTA and provides intraLATA toll service to its customers, it may be necessary for it to establish a Point of Interconnection to additional BellSouth access tandems that serve end offices outside the local calling area. To the extent Global Crossing routes its traffic in such a way that utilizes BellSouth's MTA service without properly ordering MTA service, Global Crossing agrees to pay BellSouth the associated transport and termination charges.

2.14 BellSouth End Office Interconnection

2.14.1 Global Crossing may establish interconnection at BellSouth end offices for the delivery of Global Crossing originated local and intralata toll traffic destined for BellSouth end-users served by that end-office.

2.14.2 When end office trunking is ordered by BellSouth to deliver BellSouth originated traffic to Global Crossing, BellSouth will provide overflow routing through BellSouth tandems consistent with how BellSouth overflows it's traffic. The overflow will be based on the homing arrangements Global Crossing displays in the LERG. Likewise, if Global Crossing interconnects to a BellSouth end office for delivery of Global Crossing originated traffic, Global Crossing will overflow the traffic through the BellSouth tandems based on the BellSouth homing arrangements shown in the LERG.

2.14.3 The Parties shall utilize direct end office trunking under the following conditions:

(1) Tandem Exhaust - If a tandem through which the Parties are interconnected is unable to, or is forecasted to be unable to support additional traffic loads for any period of time, the Parties will mutually agree on an end office trunking plan that will alleviate the tandem capacity shortage and ensure completion of traffic between Global Crossing and BellSouth's subscribers.

(2) Traffic Volume –To the extent either Party has the capability to measure the amount of traffic between a Global Crossing switching center and a BellSouth end office, either Party shall install and retain direct end office trunking sufficient to handle actual or reasonably forecasted traffic volumes, whichever

is greater, between a Global Crossing switching center and a BellSouth end office where the traffic exceeds or is forecasted to exceed a single DS1 of local traffic per month. Either Party will install additional capacity between such points when overflow traffic between Global Crossing's switching center and BellSouth's end office exceeds or is forecasted to exceed a single DS1 of local traffic per month. In the case of one way trunking, additional trunking shall only be required by the Party whose trunking has achieved the preceding usage threshold.

(3) Mutual Agreement - The Parties may install direct end office trunking upon mutual agreement in the absence of conditions (1) or (2) above and agreement will not unreasonably be withheld.

2.15 Local Tandem Interconnection.

2.15.1 This interconnection arrangement allows Global Crossing to establish a Point of Interconnection at BellSouth local tandems for: (1) the delivery of Global Crossing-originated local traffic transported and terminated by BellSouth to BellSouth end offices within the local calling area as defined in BellSouth's General Subscriber Services Tariff (GSST), section A3. served by those BellSouth local tandems, and (2) for local transit traffic transported by BellSouth for third party network providers who have also established Points of Interconnection at those BellSouth local tandems.

2.15.2 When a specified local calling area is served by more than one BellSouth local tandem, Global Crossing must designate a "home" local tandem for each of its assigned NPA/NXXs and establish trunk connections to such local tandems. Additionally, Global Crossing may choose to establish a Point of Interconnection at the BellSouth local tandems where it has no codes homing but is not required to do so. Global Crossing may deliver local traffic to a "home" BellSouth local tandem that is destined for other BellSouth or third party network provider end offices subtending other BellSouth local tandems in the same local calling area where Global Crossing does not choose to establish a Point of Interconnection. It is Global Crossing's responsibility to enter its own NPA/NXX local tandem homing arrangements into the Local Exchange Routing Guide (LERG) either directly or via a vendor in order for other third party network providers to determine appropriate traffic routing to Global Crossing's codes. Likewise, Global Crossing shall obtain its routing information from the LERG.

2.15.3 Notwithstanding establishing Points of Interconnection to BellSouth's local tandems, Global Crossing must also establish Points of Interconnection to BellSouth access tandems within the LATA on which Global Crossing has NPA/NXXs homed for the delivery of Interexchange Carrier Switched Access (SWA) and toll traffic, and traffic to Type 2A CMRS connections located at the access tandems. BellSouth shall not switch SWA traffic through more than one

BellSouth access tandem. SWA, Type 2A CMRS or toll traffic routed to the local tandem in error will not be backhauled to the BellSouth access tandem for completion. (Type 2A CMRS interconnection is defined in BellSouth's A35 General Subscriber Services Tariff.)

2.15.4 BellSouth's provisioning of local tandem interconnection assumes that Global Crossing has executed the necessary local interconnection agreements with the other third party network providers subtending those local tandems as required by the Act.

3. Network Design And Management For Interconnection

3.1 Network Management and Changes. Both Parties will work cooperatively with each other to install and maintain the most effective and reliable interconnected telecommunications networks, including but not limited to, the exchange of toll-free maintenance contact numbers and escalation procedures. Both Parties agree to provide public notice of changes in the information necessary for the transmission and routing of services using its local exchange facilities or networks, as well as of any other changes that would affect the interoperability of those facilities and networks.

3.2 Interconnection Technical Standards. The interconnection of all networks will be based upon accepted industry/national guidelines for transmission standards and traffic blocking criteria. Interconnecting facilities shall conform, at a minimum, to the telecommunications industry standard of DS-1 pursuant to Bellcore Standard No. TR-NWT-00499. Signal transfer point, Signaling System 7 ("SS7") connectivity is required at each interconnection point. BellSouth will provide out-of-band signaling using Common Channel Signaling Access Capability where technically and economically feasible, in accordance with the technical specifications set forth in the BellSouth Guidelines to Technical Publication, TR-TSV-000905. Facilities of each Party shall provide the necessary on-hook, off-hook answer and disconnect supervision and shall hand off calling number ID (Calling Party Number) when technically feasible.

3.3 Quality of Interconnection. The local interconnection for the transmission and routing of telephone exchange service and exchange access that each Party provides to each other will be at least equal in quality to what it provides to itself and any subsidiary or affiliate, where technically feasible, or to any other Party to which each Party provides local interconnection.

3.4 Network Management Controls. Both Parties will work cooperatively with each other to apply sound network management principles by invoking appropriate network management controls (e.g., call gapping) to alleviate or prevent network congestion.

3.5 Common Channel Signaling. Both Parties will provide LEC-to-LEC Common Channel Signaling ("CCS") to each other, where available, in conjunction with all traffic in order to enable full interoperability of CLASS features and functions except for call return. All CCS signaling parameters will be provided, including automatic number identification ("ANI"), originating line information ("OLI") calling company category, charge number, etc. All privacy indicators will be honored, and each Party will cooperate with each other on the exchange of Transactional Capabilities Application Part ("TCAP") messages to facilitate full interoperability of CCS-based features between the respective networks. Neither Party shall alter the CCS parameters, or be a party to altering such parameters, or knowingly pass CCS parameters that have been altered in order to circumvent appropriate interconnection charges.

3.6 Signaling Call Information. BellSouth and Global Crossing will send and receive 10 digits for local traffic. Additionally, BellSouth and Global Crossing will exchange the proper call information, i.e. originated call company number and destination call company number, CIC, and OZZ, including all proper translations for routing between networks and any information necessary for billing.

3.7 Forecasting Requirements. The Parties shall exchange technical descriptions and forecasts of their interconnection and traffic requirements in sufficient detail necessary to establish the interconnections required to assure traffic completion to and from all customers in their respective designated service areas. In order for the Parties to provide as accurate reciprocal trunking forecasts as possible to each other, each Party must timely inform the other Party of any known or anticipated events that may affect reciprocal trunking requirements. If either Party is unable to provide such information, The Parties shall provide reciprocal trunking forecasts based only on existing trunk group growth and annual estimated percentage of subscriber line growth.

3.7.1 Both Parties shall meet every six months or at otherwise mutually agreeable intervals for the purpose of exchanging non-binding forecasts of its traffic and volume requirements for the interconnection and network elements provided under this Agreement, in the form and in such detail as agreed by the Parties. The Parties agree that each forecast provided under this Section shall be deemed "Confidential Information" in the General Terms and Conditions – Part A of this Agreement.

3.7.2 The trunk forecast should include trunk requirements for all of the interconnecting trunk groups for the current year plus the next two future years. The forecast meeting between the two companies may be a face-to-face meeting, video conference or audio conference. It may be held regionally or geographically.

Ideally, these forecast meetings should be held at least semi-annually, or more often if the forecast is no longer usable. Updates to a forecast or portions thereof should be made whenever the Party providing the forecast deems that the latest trunk requirements exceed the original quantities by 24 trunks or 10%, whichever is greater. Either Party should notify the other Party if they have measurements indicating that a trunk group is exceeding its designed call carrying capacity and is impacting other trunk groups in the network. Also, either Party should notify the other Party if they know of situations in which the traffic load is expected to increase significantly and thus affect the interconnecting trunk requirements as well as the trunk requirements within the other Party's network. The Parties agree that the forecast information provided under this Section shall be deemed "Confidential Information" as set forth in the General Terms and Conditions of this Agreement.

3.7.3 For a non-binding trunk forecast, agreement between the two Parties on the trunk quantities and the timeframe of those trunks does not imply any liability for failure to perform if the trunks are not available for use at the required time.

4. Local Dialing Parity

4.1 BellSouth and Global Crossing shall provide local and toll dialing parity to each other with no unreasonable dialing delays. Dialing parity shall be provided for all originating telecommunications services that require dialing to route a call. BellSouth and Global Crossing shall permit similarly situated telephone exchange service end users to dial the same number of digits to make a local telephone call notwithstanding the identity of the end user's or the called party's telecommunications service provider.

5. Interconnection Compensation

5.1 Compensation for Call Transportation and Termination for Local Traffic

5.1.1 Local Traffic is defined as any telephone call that originates in one exchange and terminates in either the same exchange, or other local calling area associated with the originating exchange as defined and specified in Section A3 of BellSouth's General Subscriber Service Tariff. As clarification of this definition and for reciprocal transport and termination compensation, Local Traffic does not include traffic that originates from or is directed to or through an enhanced service provider or information service provider. As further clarification, Local Traffic does not include calls that do not transmit information of the user's choosing. In any event, neither Party will pay reciprocal compensation to the other if the "traffic" to which such reciprocal compensation would otherwise apply was generated, in whole or in part, for the purpose of creating an obligation on the part of the originating carrier to pay reciprocal compensation for such traffic.

5.1.2 The Parties shall provide for the mutual and reciprocal recovery of the costs for the elemental functions performed in transporting and terminating local traffic on each other's network. The Parties agree that charges for transport and termination of calls on its respective networks are as set forth in Exhibit A to this Attachment.

5.1.3 For the purposes of this Attachment, **Common (Shared) Transport** is defined as the transport of the originating Party's traffic by the terminating Party over the terminating Party's common (shared) facilities between the terminating Party's tandem switch and end office switch and/or between the terminating Party's tandem switches.

5.1.4 For the purposes of this Attachment, **Tandem Switching** is defined as the function that establishes a communications path between two switching offices through a third switching office (the Tandem switch).

5.1.5 For the purposes of this Attachment, **End Office Switching** is defined as the function that establishes a communications path between the trunk side and line side of the End Office switch.

5.1.6 If Global Crossing utilizes a switch outside the LATA and BellSouth chooses to purchase dedicated or common (shared) transport from Global Crossing for transport and termination of BellSouth originated traffic, BellSouth will pay Global Crossing no more than the airline miles between the V & H coordinates of the Point of Interface within the LATA where Global Crossing receives the BellSouth-originated traffic and the V & H coordinates of the BellSouth Exchange Rate Center Area that the Global Crossing terminating NPA/NXX is associated in the same LATA. For these situations, BellSouth will compensate Global Crossing at either dedicated or common (shared) transport rates specified in Exhibit A and based upon the functions provided by Global Crossing as defined in this Attachment.

5.1.7 Neither Party shall represent access services traffic (e.g. Internet Protocol (IP) Telephony, FGA, FGB, etc.) as Local Traffic for purposes of payment of reciprocal compensation.

5.1.8 The Parties agree that the jurisdiction of a call is determined by its originating and terminating (end-to-end) points. For the purpose of delivery of BellSouth originating traffic to Global Crossing, BellSouth will pay to Global Crossing reciprocal compensation for Local Traffic terminating to Global Crossing end users physically located in the BellSouth rate center to which the Global Crossing end user's NPA/NXX is assigned. If Global Crossing assigns NPA/NXXs to specific BellSouth rate centers and assigns numbers from those NPA/NXXs to Global Crossing end users physically located outside of the rate center to which the NPA/NXX is assigned, BellSouth traffic originating from within the

BellSouth rate center where the NPA/NXX is assigned and terminating to a Global Crossing customer physically located outside of such rate center, and at a location toll to the BellSouth originating rate center, shall not be deemed Local Traffic, and no compensation from BellSouth to Global Crossing shall be due therefor. Further, Global Crossing agrees to identify such traffic to BellSouth and to compensate BellSouth for originating and transporting such traffic to Global Crossing at BellSouth's tariffed intrastate switched access rates. In addition, Global Crossing should not use NPA/NXXs to collect BellSouth originated local or intraLATA toll traffic and for delivery to a point outside the LATA from where the originating NPA/NXX rate center resides.

5.1.9 If Global Crossing does not identify such traffic to BellSouth, to the best of BellSouth's ability BellSouth will determine which whole Global Crossing NPA/NXXs on which to charge the applicable rates for originating intrastate network access service as reflected in BellSouth's Intrastate Access Service Tariff. BellSouth shall make appropriate billing adjustments if Global Crossing can provide sufficient information for BellSouth to determine whether said traffic is local or toll.

5.2 Percent Local Use. Each Party will report to the other a Percentage Local Usage ("PLU"). The application of the PLU will determine the amount of local minutes to be billed to the other Party. For purposes of developing the PLU, each Party shall consider every local call and every long distance call, excluding intermediary traffic. By the first of January, April, July and October of each year, each Party shall provide a positive report updating the PLU. Requirements associated with PLU calculation and reporting shall be as set forth in BellSouth's Percent Local Use Reporting Guidebook, as it is amended from time to time. Notwithstanding the foregoing, where the terminating Party has message recording technology that identifies the jurisdiction of traffic terminated as defined in this Agreement, such information, in lieu of the PLU factor, shall at the terminating Party's option be utilized to determine the appropriate local usage compensation to be paid.

5.3 Percentage Interstate Usage. In the case where Global Crossing desires to terminate its local traffic over or co-mingled on its switched access Feature Group D trunks, Global Crossing will be required to provide a projected Percentage Interstate Usage ("PIU") to BellSouth. All jurisdictional report requirements, rules and regulations for Interexchange Carriers specified in BellSouth's Intrastate Access Services Tariff will apply to Global Crossing. After interstate and intrastate traffic percentages have been determined by use of PIU procedures, the PLU factor will be used for application and billing of local interconnection. Notwithstanding the foregoing, where the terminating Party has message recording technology that identifies the jurisdiction of traffic terminated as defined in this Agreement, such information, in lieu of the PIU and PLU factor, shall at the terminating Party's option be utilized to determine the appropriate local usage compensation to be paid.

5.4 Audits. On thirty (30) days written notice, each Party must provide the other the ability and opportunity to conduct an annual audit to ensure the proper billing of traffic. BellSouth and Global Crossing shall retain records of call detail for a minimum of nine months from which a PLU and/or PIU can be ascertained. The audit shall be accomplished during normal business hours at an office designated by the Party being audited. Audit requests shall not be submitted more frequently than one (1) time per calendar year. Audits shall be performed by a mutually acceptable independent auditory paid for by the Party requesting the audit. The PLU and/or PIU shall be adjusted based upon the audit results and shall apply to the usage for the quarter the audit was completed, to the usage for the quarter prior to the completion of the audit, and to the usage for the two quarters following the completion of the audit. If, as a result of an audit, either Party is found to have overstated the PLU and/or PIU by twenty percentage points (20%) or more, that Party shall reimburse the auditing Party for the cost of the audit.

5.5 Rate True-up

This section applies only to North Carolina and Tennessee and other rates that are interim or expressly subject to true-up under this attachment.

5.5.1 The interim prices for Unbundled Network Elements and Other Services and Local Interconnection shall be subject to true-up according to the following procedures:

5.5.2 The interim prices shall be trued-up, either up or down, based on final prices determined either by further agreement between the Parties, or by a final order (including any appeals) of the Commission which final order meets the criteria of (3) below. The Parties shall implement the true-up by comparing the actual volumes and demand for each item, together with interim prices for each item, with the final prices determined for each item. Each Party shall keep its own records upon which the true-up can be based, and any final payment from one Party to the other shall be in an amount agreed upon by the Parties based on such records. In the event of any disagreement as between the records or the Parties regarding the amount of such true-up, the Parties agree that the body having jurisdiction over the matter shall be called upon to resolve such differences, or the Parties may mutually agree to submit the matter to the Dispute Resolution process in accordance with the provisions of Section 12 of the General Terms and Conditions and Attachment 1 of the Agreement.

5.5.3 The Parties may continue to negotiate toward final prices, but in the event that no such agreement is reached within nine (9) months, either Party may petition the Commission to resolve such disputes and to determine final prices for each item. Alternatively, upon mutual agreement, the Parties may submit the matter to the Dispute Resolution Process set forth in the General Terms and Conditions of the

Agreement, so long as they file the resulting Agreement with the Commission as a "negotiated agreement" under Section 252(e) of the Act.

5.5.4 A final order of this Commission that forms the basis of a true-up shall be the final order as to prices based on appropriate cost studies, or potentially may be a final order in any other Commission proceeding which meets the following criteria:

(a) BellSouth and CLEC is entitled to be a full Party to the proceeding;
(b) It shall apply the provisions of the federal Telecommunications Act of 1996, including but not limited to Section 252(d)(1) (which contains pricing standards) and all then-effective implementing rules and regulations; and,
(c) It shall include as an issue the geographic deaveraging of unbundled element prices, which deaveraged prices, if any are required by said final order, shall form the basis of any true-up.

5.6 Compensation for IntraLATA Toll Traffic

5.6.1 IntraLATA Toll Traffic. IntraLATA Toll Traffic is defined as any telephone call that is not local or switched access per this Agreement.

5.6.2 Compensation for intraLATA toll traffic. For terminating its intraLATA toll traffic on the other company's network, the originating Party will pay the terminating Party BellSouth's current intrastate or interstate, whichever is appropriate, terminating switched access tariff rates as set forth in BellSouth's Intrastate or Interstate Access Services Tariff. The appropriate charges will be determined by the routing of the call. If Global Crossing is the BellSouth end user's presubscribed interexchange carrier or if the BellSouth end user uses Global Crossing as an interexchange carrier on a 101XXXX basis, BellSouth will charge Global Crossing the appropriate BellSouth tariff charges for originating switched access services.

5.6.3 Compensation for 8XX Traffic. Each Party shall compensate the other pursuant to the appropriate switched access charges, including the database query charge as set forth in the BellSouth intrastate or interstate switched access tariffs.

5.6.4 Records for 8XX Billing. Each Party will provide to the other the appropriate records necessary for billing intraLATA 8XX customers. The records provided will be in a standard EMI format for a fee of $0.013 per record.

5.6.5 8XX Access Screening. BellSouth's provision of 8XX TFD to Global Crossing requires interconnection from Global Crossing to BellSouth 8XX SCP. Such interconnections shall be established pursuant to BellSouth's Common Channel Signaling Interconnection Guidelines and Bellcore's CCS Network Interface

Specification document, TR-TSV-000905. Global Crossing shall establish CCS7 interconnection at the BellSouth Local Signal Transfer Points serving the BellSouth 8XX SCPs that Global Crossing desires to query. The terms and conditions for 8XX TFD are set out in BellSouth's Intrastate Access Services Tariff as amended.

5.7 Mutual Provision of Switched Access Service

5.7.1 Switched Access Traffic. Switched Access Traffic is as defined in the BellSouth Access Tariff. Additionally, IP Telephony traffic will be considered switched access traffic.

5.7.2 When Global Crossing's end office switch, subtending the BellSouth Access Tandem switch for receipt or delivery of switched access traffic, provides an access service connection to or from an interexchange carrier ("IXC") by either a direct trunk group to the IXC utilizing BellSouth facilities, or via BellSouth's tandem switch, each Party will provide its own access services to the IXC on a multi-bill, multi-tariff meet-point basis. Each Party will bill its own access services rates to the IXC with the exception of the interconnection charge. The interconnection charge will be billed by the Party providing the end office function. Each party will use the Multiple Exchange Carrier Access Billing (MECAB) system to establish meet point billing for all applicable traffic. Thirty (30)-day billing periods will be employed for these arrangements. The recording Party agrees to provide to the initial billing Party, at no charge, the switched access detailed usage data within no more than sixty (60) days after the recording date. The initial billing Party will provide the switched access summary usage data to all subsequent billing Parties within 10 days of rendering the initial bill to the IXC. Each Party will notify the other when it is not feasible to meet these requirements so that the customers may be notified for any necessary revenue accrual associated with the significantly delayed recording or billing. As business requirements change data reporting requirements may be modified as necessary.

5.7.3 Where either Party has been notified that the other Party has a Billing Guarantee Practice, each Party so notified (the Initial Billing Party or the recording Party) will be held liable for any access revenues which it has caused to be determined unbillable under the guidelines of such Billing Guarantee Practice of the other Party. Each Party will provide complete documentation to the other to substantiate any claim of unbillable access revenues. A negotiated settlement will be agreed upon between the Parties.

5.7.4 Each Party will retain for a minimum period of sixty (60) days, access message detail sufficient to recreate any data which is lost or damaged by their company or any third party involved in processing or transporting data.

5.7.5 Each Party agrees to recreate the lost or damaged data within forty-eight (48) hours of notification by the other or by an authorized third party handling the data.

5.7.6 Each Party also agrees to process the recreated data within forty-eight (48) hours of receipt at its data processing center.

5.7.7 All claims should be filed with the other Party within 120 days of the receipt of the date of the unbillable usage.

5.7.8 The Initial Billing Party shall keep records of its billing activities relating to jointly-provided Intrastate and Interstate access services in sufficient detail to permit the Subsequent Billing Party to, by formal or informal review or audit, to verify the accuracy and reasonableness of the jointly-provided access billing data provided by the Initial billing Party. Each Party agrees to cooperate in such formal or informal reviews or audits and further agrees to jointly review the findings of such reviews or audits in order to resolve any differences concerning the findings thereof.

5.7.9 Global Crossing agrees not to deliver switched access traffic to BellSouth for termination except over Global Crossing ordered switched access trunks and facilities.

5.8 Transit Traffic Service. BellSouth shall provide tandem switching and transport services for Global Crossing's transit traffic. Transit traffic is traffic originating on Global Crossing's network that is switched and/or transported by BellSouth and delivered to a third party's network, or traffic originating on a third Party's network that is switched and/or transported by BellSouth and delivered to Global Crossing's network . Rates for local transit traffic shall be the applicable call transport and termination charges as set forth in Exhibit A to this Attachment. Rates for intraLATA toll and Switched Access transit traffic shall be the applicable call transport and termination charges as set forth in BellSouth Interstate or Intrastate Switched Access tariffs. Switched Access transit traffic presumes that Global Crossing's end office is subtending the BellSouth Access Tandem for switched access traffic to and from Global Crossing's end users utilizing BellSouth facilities, either by direct trunks with the IXC, or via the BellSouth Access Tandem. Billing associated with all transit traffic shall be pursuant to Multiple Exchange Carrier Access Billing (MECAB) procedures. Wireless Type 1 traffic shall not be treated as transit traffic from a routing or billing perspective. Wireless Type 2A traffic shall not be treated as transit traffic from a routing or billing perspective until BellSouth and the Wireless carrier have the capability to properly meet-point-bill in accordance with MECAB guidelines.

5.8.1 The delivery of traffic which transits the BellSouth network and is transported to another carrier's network is excluded from any BellSouth billing guarantees and will be delivered at the rates stipulated in this Agreement to a terminating carrier.

BellSouth agrees to deliver this traffic to the terminating carrier; provided, however, that Global Crossing is solely responsible for negotiating and executing any appropriate contractual agreements with the terminating carrier for the receipt of this traffic through the BellSouth network. BellSouth will not be liable for any compensation to the terminating carrier or to Global Crossing. Global Crossing agrees to compensate BellSouth for any charges or costs for the delivery of transit traffic to a connecting carrier on behalf of Global Crossing. Additionally, the Parties agree that any billing to a third party or other telecommunications carrier under this section shall be pursuant to MECAB procedures.

5.9 Interconnection with Enhanced Service Providers (ESPs)/Information Service Providers (ISPs). ESP/ISP traffic shall not be included in the interconnection compensation arrangements of this Agreement.

6. Frame Relay Service

6.1 In addition to the Local Interconnection services set forth above, BellSouth will offer a network to network Interconnection arrangement between BellSouth's and Global Crossing's frame relay switches as set forth below. The following provisions will apply only to Frame Relay Service and Exchange Access Frame Relay Service in those states in which Global Crossing is certified and providing Frame Relay Service as a Local Exchange Carrier and where traffic is being exchanged between Global Crossing and BellSouth Frame Relay Switches in the same LATA.

6.2 The Parties agree to establish two-way Frame Relay facilities between their respective Frame Relay Switches to the mutually agreed upon Frame Relay Service point(s) of interconnection ("POI(s)") within the LATA. All POIs shall be within the same Frame Relay Network Serving Areas as defined in Section A40 of BellSouth's General Subscriber Service Tariff except as set forth in this Attachment.

6.3 Upon the request of either Party, such interconnection will be established where BellSouth and Global Crossing have Frame Relay Switches in the same LATA. Where there are multiple Frame Relay switches in one central office, an interconnection with any one of the switches will be considered an interconnection with all of the switches at that central office for purposes of routing packet traffic.

6.4 The Parties agree to provision local and IntraLATA Frame Relay Service and Exchange Access Frame Relay Service (both intrastate and interstate) over Frame Relay interconnection facilities between the respective Frame Relay switches and the POIs.

6.5 The Parties agree to assess each other reciprocal charges for the facilities that each provides to the other according to the Percent Local Circuit Use Factor (PLCU), determined as follows:

6.5.1 If the data packets originate and terminate in locations in the same LATA, and consistent with the local definitions of the Agreement, the traffic is considered local. Frame Relay framed packet data is transported within Virtual Circuits (VC). For the purposes of this Agreement, if all the data packets transported within a VC remain within the LATA, then consistent with the local definitions in this Agreement, the traffic on that VC is local ("Local VC").

6.5.2 If the originating and terminating locations of the two way packet data traffic are not in the same LATA, the traffic on that VC is interLATA ("InterLATA VC").

6.5.3 The PLCU is determined by dividing the total number of Local VCs, by the total number of VCs on each Frame Relay facility. To facilitate implementation, Global Crossing may determine its PLCU in aggregate, by dividing the total number of Local VCs in a given LATA by the total number VCs in that LATA. The Parties agree to renegotiate the method for determining PLCU, at BellSouth's request, and within 90 days, if BellSouth notifies Global Crossing that it has found that this method does not adequately represent the PLCU.

6.5.4 If there are no VCs on a facility when it is billed, the PLCU will be zero.

6.5.5 BellSouth will provide the circuit between the Parties' respective Frame Relay Switches. The Parties will be compensated as follows: BellSouth will invoice, and Global Crossing will pay, the total non-recurring and recurring charges for the circuit based upon the rates set forth in BellSouth's Interstate Access Tariff, FCC No. 1. Global Crossing will then invoice, and BellSouth will pay, an amount calculated by multiplying the BellSouth billed charges for the circuit by one-half of Global Crossing's PLCU.

6.6 The Parties agree to compensate each other for Frame Relay network-to-network interface (NNI) ports based upon the NNI rates set forth in BellSouth's Interstate Access Tariff, FCC No. 1. Compensation for each pair of NNI ports will be calculated as follows: BellSouth will invoice, and Global Crossing will pay, the total non-recurring and recurring charges for the NNI port. Global Crossing will then invoice, and BellSouth will pay, an amount calculated by multiplying the BellSouth billed non-recurring and recurring charges for the NNI port by Global Crossing's PLCU.

6.7 Each Party agrees that there will be no charges to the other Party for its own subscriber's Permanent Virtual Circuit (PVC) rate elements for the local PVC segment from its Frame Relay switch to its own subscriber's premises. PVC rate

elements include the Data Link Connection Identifier (DLCI) and Committed Information Rate (CIR).

6.8 For the PVC segment between the Global Crossing and BellSouth Frame Relay switches, compensation for the PVC charges is based upon the rates in BellSouth's Interstate Access Tariff, FCC No. 1.

6.9 Compensation for PVC rate elements will be calculated as follows:

6.9.1 If Global Crossing orders a VC connection between a BellSouth subscriber's PVC segment and a PVC segment from the BellSouth Frame Relay switch to the Global Crossing Frame Relay switch, BellSouth will invoice, and Global Crossing will pay, the total non-recurring and recurring PVC charges for the PVC segment between the BellSouth and Global Crossing Frame Relay switches. If the VC is a Local VC, Global Crossing will then invoice and BellSouth will pay, the total nonrecurring and recurring PVC charges billed for that segment. If the VC is not local, no compensation will be paid to Global Crossing for the PVC segment.

6.9.2 If BellSouth orders a Local VC connection between a Global Crossing subscriber's PVC segment and a PVC segment from the Global Crossing Frame Relay switch to the BellSouth Frame Relay switch, BellSouth will invoice, and Global Crossing will pay, the total non-recurring and recurring PVC and CIR charges for the PVC segment between the BellSouth and Global Crossing Frame Relay switches. If the VC is a Local VC, Global Crossing will then invoice and BellSouth will pay the total non-recurring and recurring PVC and CIR charges billed for that segment. If the VC is not local, no compensation will be paid to Global Crossing for the PVC segment.

6.9.3 The Parties agree to compensate each other for requests to change a PVC segment or PVC service order record, according to the Feature Change charge as set forth in the BellSouth access tariff BellSouth Tariff FCC No, 1.

6.9.4 If Global Crossing requests a change, BellSouth will invoice and Global Crossing will pay a Feature Change charge for each affected PVC segment.

6.9.4.1 If BellSouth requests a change to a Local VC, Global Crossing will invoice and BellSouth will pay a Feature Change charge for each affected PVC segment.

6.9.5 The Parties agree to limit the sum of the CIR for the VCs on a DS1 NNI port to not more than three times the port speed, or not more than six times the port speed on a DS3 NNI port.

6.9.6 Except as expressly provided herein, this Agreement does not address or alter in any way either Party's provision of Exchange Access Frame Relay Service or interLATA Frame Relay Service. All charges by each Party to the other for

carriage of Exchange Access Frame Relay Service or interLATA Frame Relay Service are included in the BellSouth access tariff BellSouth Tariff FCC No. 1.

6.10 Global Crossing will identify and report quarterly to BellSouth the PLCU of the Frame Relay facilities it uses, per section 8.5.3 above.

6.11 Either Party may request a review or audit of the various service components, consistent with the provisions of section E2 of the BellSouth State Access Services tariffs or Section 2 of the BellSouth FCC No.1 Tariff.

6.12 If during the term of this Agreement, BellSouth obtains authority to provide interLATA Frame Relay in any State, the Parties agree to renegotiate this arrangement for the exchange of Frame Relay Service Traffic within one hundred eighty (180) days of the date BellSouth receives interLATA authority. In the event the Parties fail to renegotiate this Section 8 within the one hundred eighty day period, they will submit this matter to the appropriate State commission(s) for resolution.

7. Remote Access Server (RAS) Network Interconnection

7.1 The Parties agree that the Remote Access Server (RAS) is a specialized internet traffic concentration device designed to concentrate traffic to specific Internet Service Providers (ISPs), and as such is telecommunications equipment, but is not an end office switch or equivalent facility, and thus is not subject to call transport and termination requirements under FCC Rule 51.711.

7.2 The Parties further agree that the purpose of the Global Crossing RAS service offering is to move Internet traffic off the Public Switched Telephone Network (PSTN) terminating end office switch.

7.3 Global Crossing shall configure Global Crossing's RAS device in such a manner as to eliminate the provisioning of enhanced services as defined by the Federal Communications Commission, such as but not limited to, user authentication, security, usage measurement, billing control and protocol conversion.

7.4 BellSouth agrees to deliver BellSouth originated and transit traffic intended for Global Crossing's end users to Global Crossing's RAS device pursuant to the terms and conditions of this Agreement.

7.5 NPA/NXX Code Assignment and Homing

7.5.1 Global Crossing shall assign unique NPA/NXXs to Global Crossing's RAS specifically for Internet traffic routing purposes.

7.5.2 Global Crossing shall home its NPA/NXX(s) on the BellSouth Tandem serving the Exchange Rate Center to which Global Crossingassigns Global Crossing's RAS NPA/NXX(s). The specified association between BellSouth Tandems and Exchange Rate Center Areas is defined in the LERG.

7.6 Direct Trunks Between Global Crossing's RAS And BellSouth End Offices

7.6.1 The Parties shall utilize direct end office to RAS trunks pursuant to the following conditions:

7.6.1.1 Tandem Exhaust - If a BellSouth tandem through which Global Crossing is interconnected is unable to, or is forecasted to be unable to support additional traffic loads for any period of time, the Parties will mutually agree on an end office trunking plan that will alleviate the BellSouth tandem capacity shortage and ensure completion of traffic between Global Crossing's and BellSouth's subscribers.

7.6.1.2 Global Crossing agrees to order, install and retain direct end office to RAS trunks sufficient to handle actual and reasonably forecasted traffic exceeding a single DS1 of traffic per month.

7.6.1.3 Global Crossing also agrees to order direct end office to RAS trunks within 30 days of a request by BellSouth if the end office traffic is exceeding or is forecasted to exceed a DS1 of traffic. If Global Crossing does not order direct trunks within those 30 days, Global Crossing agrees to pay to BellSouth, beginning the following month, the common transport, tandem switching and tandem shared trunk port per minute of use rates reflected in Exhibit A of this Agreement for traffic delivered to Global Crossing's RAS via BellSouth's tandem switch until such direct trunks are activated.

7.6.1.4 Global Crossing shall install additional capacity between BellSouth end offices and Global Crossing's RAS devices when overflow traffic between end offices and a RAS device exceeds or is reasonably forecasted to exceed a single DS1 of traffic per month.

7.6.1.5 The Parties may install direct end office to RAS trunks upon mutual agreement.

7.7 Trunks Between a RAS and Tandem Switches

7.7.1 Pursuant to the preceding paragraphs regarding direct trunks between a RAS and the originating end offices, the Global Crossing agrees to order, install and retain trunking to the BellSouth tandem switch sufficient to handle actual and forecasted traffic volumes routed to Global Crossing's RAS via the BellSouth tandem.

7.7.2 Global Crossing shall order and establish the necessary trunk groups to each BellSouth tandem switch on which Global Crossing has homed Global Crossing NPA/NXXs for transit traffic and traffic between Global Crossing and BellSouth and as defined in the LERG.

7.7.3 A **RAS Point of Interface** is the physical telecommunications interface between BellSouth and Global Crossing's interconnection functions. It establishes the technical interface and point of operational responsibility. The primary function of the RAS Point of Interface is to serve as the terminus for the interconnection service.

7.7.3.1 At a minimum, Global Crossing must establish a RAS Point Of Interface at each BellSouth access tandem serving an Exchange Rate Center to which Global Crossing has assigned a RAS NPA/NXX in the LATA.

7.7.3.2 Global Crossing agrees to establish, within four months of a request of BellSouth, a Point Of Interface at a BellSouth end office or tandem switch location where the traffic to Global Crossing's RAS has reached or is forecasted to reach one DS3 or more within six months.

7.7.3.3 The RAS Point of Interface has the following main characteristics:

7.7.3.3.1 It is a cross-connect point to allow connection, disconnection, transfer or restoration of service.

7.7.3.3.2 It is a point where BellSouth and Global Crossing can verify and maintain specific performance objectives.

7.7.3.3.3 It is specified according to the interface offered in the tariff or interconnection Agreement (for example: for DS1 service, the FCC # 1 tariff specifies that the interface meets the technical specifications detailed in Generic Requirements GR-342-CORE, Issue 1, December 1995.)

7.7.3.3.4 The Parties provide their own equipment (CPE) to interface with the DS0, DS1, DS3, STS1 and/or OCn circuits on the customer premises.

7.7.4 **The RAS Point of Interconnection** is the trunk group termination location at which BellSouth delivers BellSouth originated traffic to the Global Crossing's RAS on Global Crossing's network. Global Crossing's requested Point of Intereconnection shall also be used for the receipt of transit trunk groups for transit traffic at BellSouth Access and/or Local Tandems pursuant to the terms and conditions of this Agreement. Points of Interconnection established at the BellSouth Local Tandem apply only to local traffic and local originating transit traffic as defined by BellSouth.

7.7.5 Pursuant to the terms and conditions in this Agreement. BellSouth agrees to deliver BellSouth originating traffic to Global Crossing's RAS Points of Interface as established by Global Crossing. A Point of Interface may not necessarily be established at a Point of Interconnection.

7.7.6 Global Crossing agrees to compensate BellSouth for transport and switching functions performed by BellSouth at the rates reflected in Exhibit A to this Agreement, including third party transit traffic, delivered to Global Crossing's RAS Point Of Interface.

7.7.7 Exhibit A Switching and Transport rates will apply when the BellSouth Rate Center with which Global Crossing has associated its RAS NPA/NXX is not local, pursuant to BellSouth's flat rated Extended Area Service (EAS) A3 tariffs, to the BellSouth Rate Center in which Global Crossing has placed Global Crossing's RAS device.

7.7.8 Global Crossing shall not deliver switched access traffic to BellSouth via Global Crossing's RAS interconnection with BellSouth.

7.7.9 BellSouth shall not pay reciprocal compensation to Global Crossing for traffic delivered to Global Crossing's RAS.

7.7.10 Compensation for Switched Access transit traffic shall be pursuant to the **Mutual Provision of Switched Access Service** section of this Agreement. Internet Protocol (IP) Telephony traffic shall be considered and treated as switched access traffic by both parties.

8. Operational Support Systems (OSS) Rates

8.1 BellSouth has developed and made available the following mechanized systems by which Global Crossing may submit LSRs electronically.

LENS	Local Exchange Navigation System
EDI	Electronic Data Interface
TAG	Telecommunications Access Gateway

8.2 LSRs submitted by means of one of these interactive interfaces will incur an OSS electronic ordering charge as specified in the table below. An individual LSR will be identified for billing purposes by its Purchase Order Number (PON). LSRs submitted by means other than one of these interactive interfaces (mail, fax, courier, etc.) will incur a manual order charge as specified in the table below:

OPERATIONAL-SUPPORT SYSTEMS	AL, GA, LA, MS, SC	FL, KY, NC, TN
OSS LSR charge, per LSR received from the CLEC by one of the OSS interactive interfaces	$3.50 SOMEC	$3.50 SOMEC
Incremental charge per LSR received from the CLEC by means other than one of the OSS interactive interfaces	See applicable rate element	$19.99 SOMAN

Note: In addition to the OSS charges, applicable discounted service order and related discounted charges apply per the tariff.

8.3 Denial/Restoral OSS Charge

In the event Global Crossing provides a list of customers to be denied and restored, rather than an LSR, each location on the list will require a separate PON and, therefore will be billed as one LSR per location.

8.4 Cancellation OSS Charge

Global Crossing will incur an OSS charge for an accepted LSR that is later canceled by Global Crossing.

Note: Supplements or clarifications to a previously billed LSR will not incur another OSS charge.

8.5 Network Elements and Other Services Manual Additive

The Commissions in Alabama, Georgia, Louisiana, Mississippi and South Carolina have ordered incremental manual non-recurring charges (NRC) for Network Elements and Other Services ordered by means other than one of the interactive interfaces. These ordered Network Elements and Other Services manual additive NRCs will apply in these states, rather than the charge per LSR.

8.6 Threshold Billing Plan

8.6.1 The Parties agree that Global Crossing will incur the mechanized rate for all LSRs, both mechanized and manual, if the percentage of mechanized LSRs to total LSRs meets or exceeds the threshold percentages shown below:

Year	Ratio: Mechanized/Total LSRs
2000	80%
2001	90%

The threshold plan will be discontinued in 2002.

8.6.2 BellSouth will track the total LSR volume for each CLEC for each quarter. At the end of that time period, a Percent Electronic LSR calculation will be made for that quarter based on the LSR data tracked in the LCSC. If this percentage exceeds the threshold volume, all of that CLECs' future manual LSRs will be billed at the mechanized LSR rate. To allow time for obtaining and analyzing the data and

updating the billing system, this billing change will take place on the first day of the second month following the end of the quarter (e.g. May 1 for 1Q, Aug 1 for 2Q, etc.). There will be no adjustments to the amount billed for previously billed LSRs.

Basic Architecture

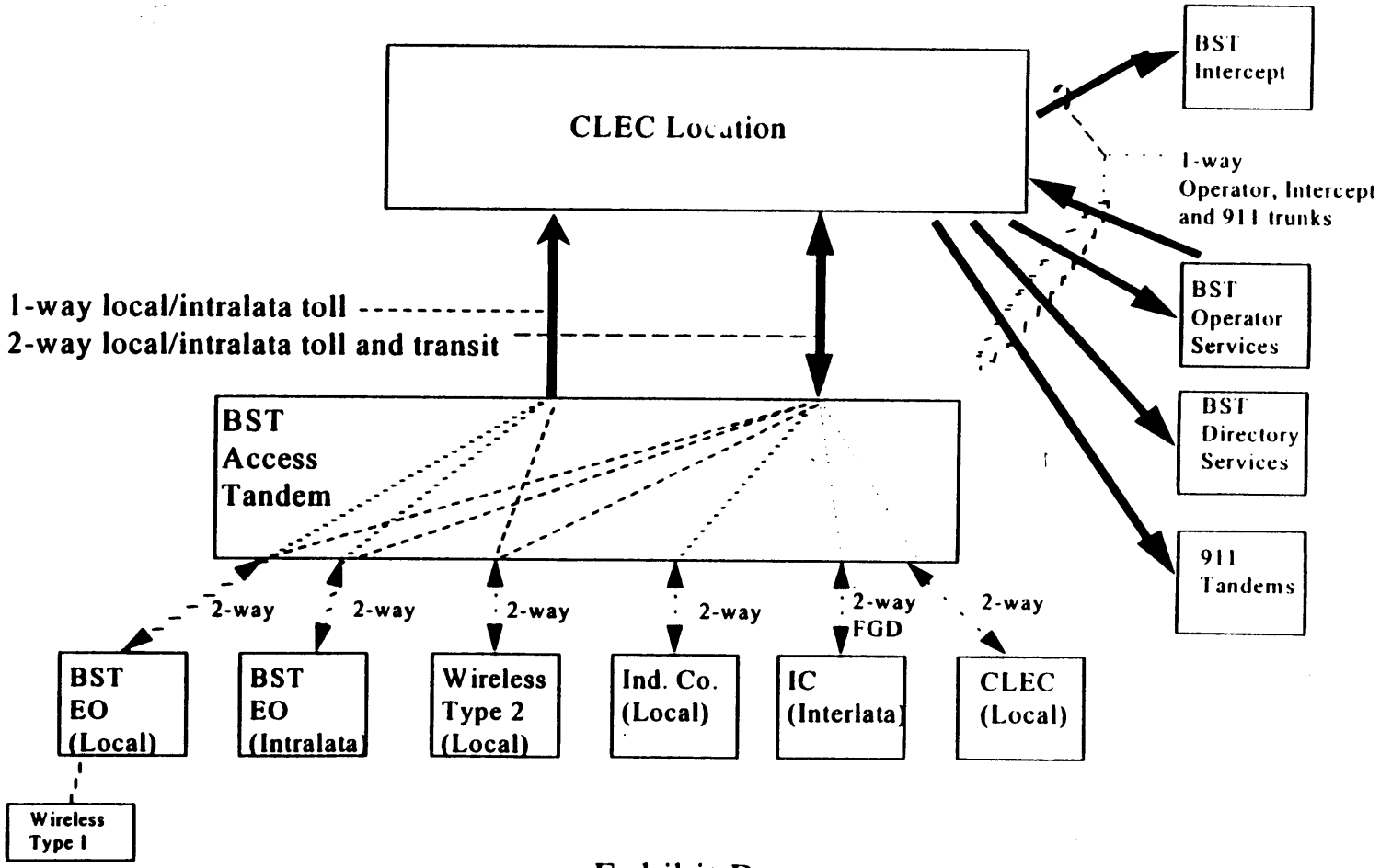


Exhibit B

One-Way Trunking Architecture

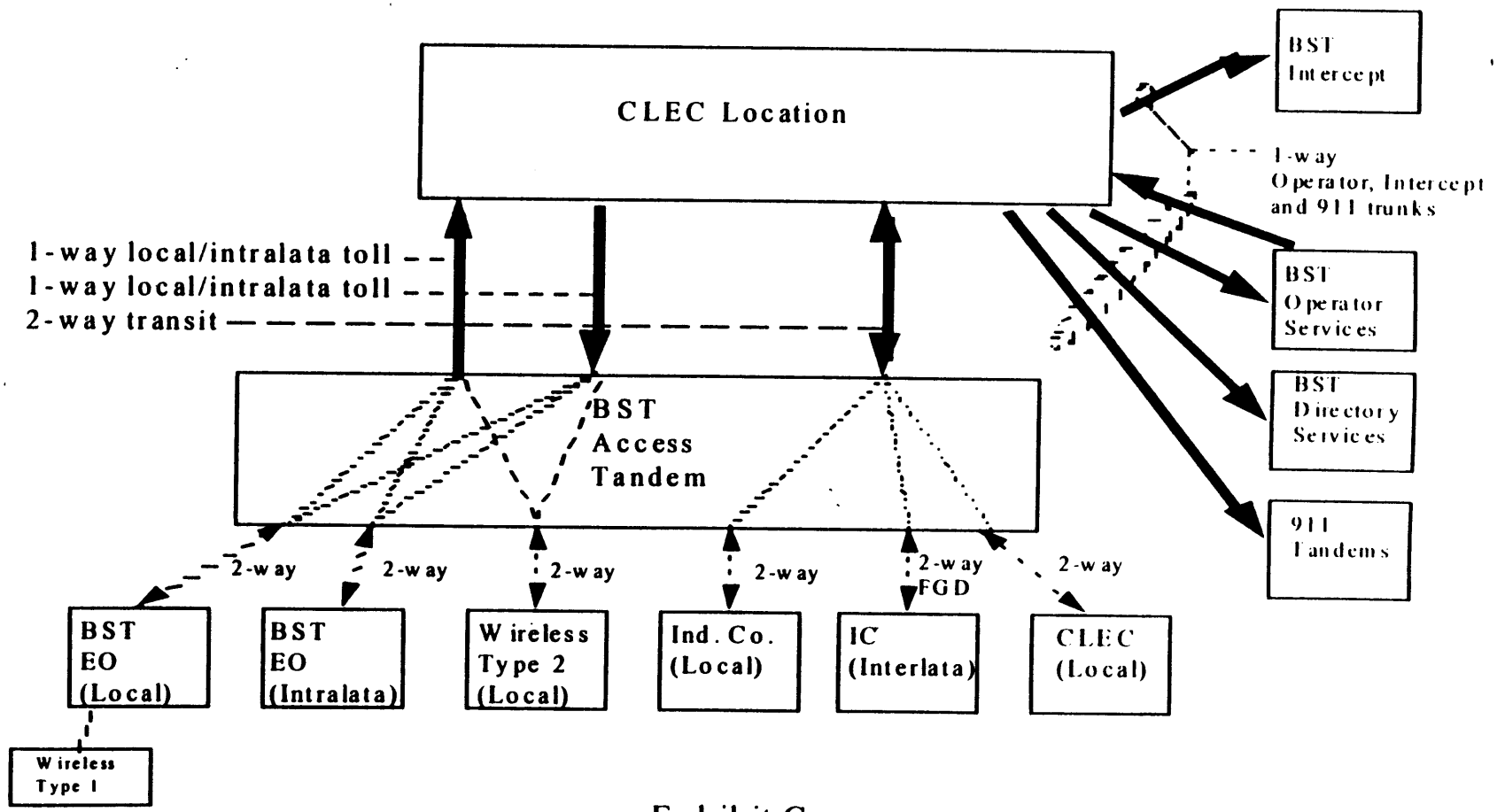


Exhibit C

Two-Way Trunking Architecture

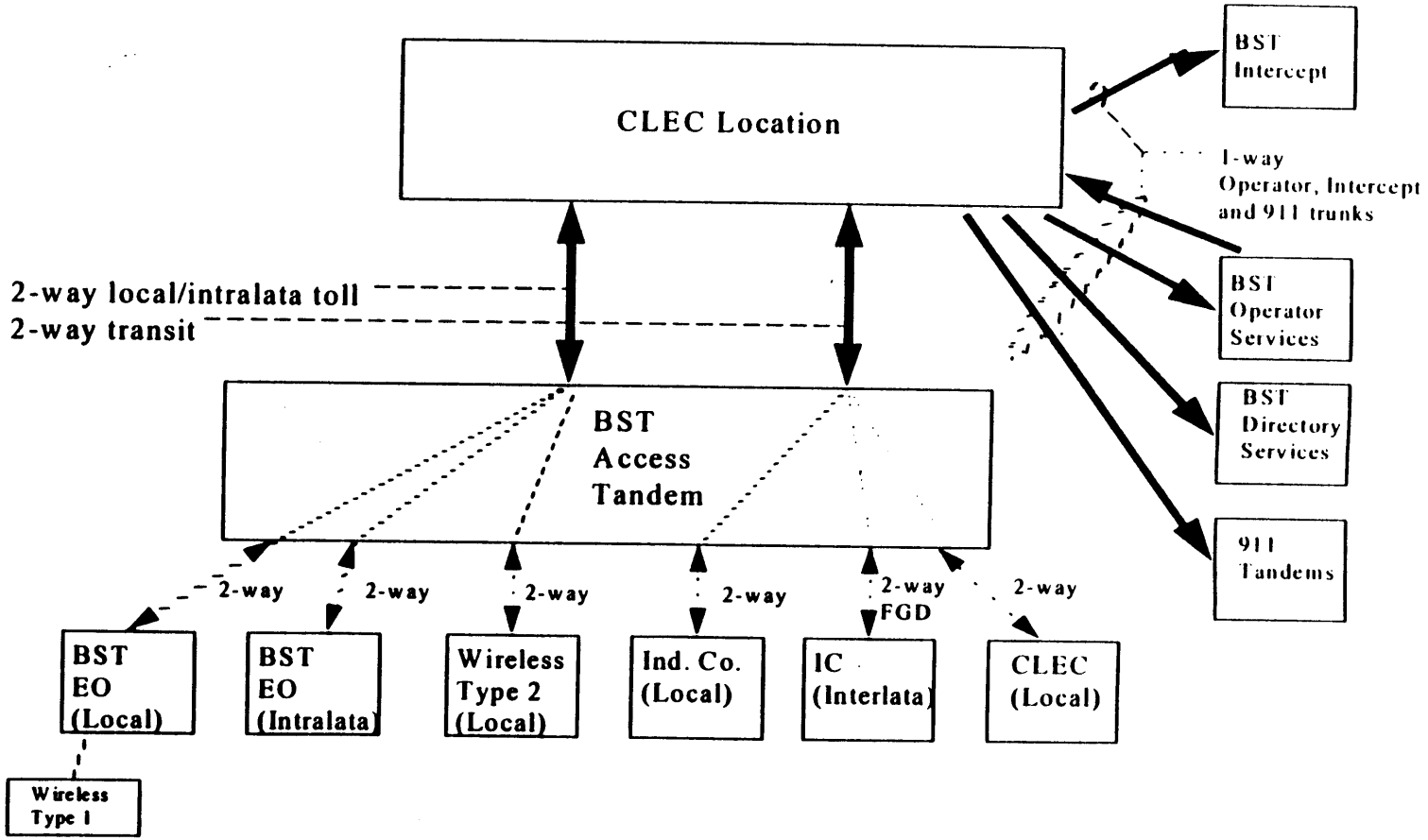


Exhibit D

SuperGroup Architecture

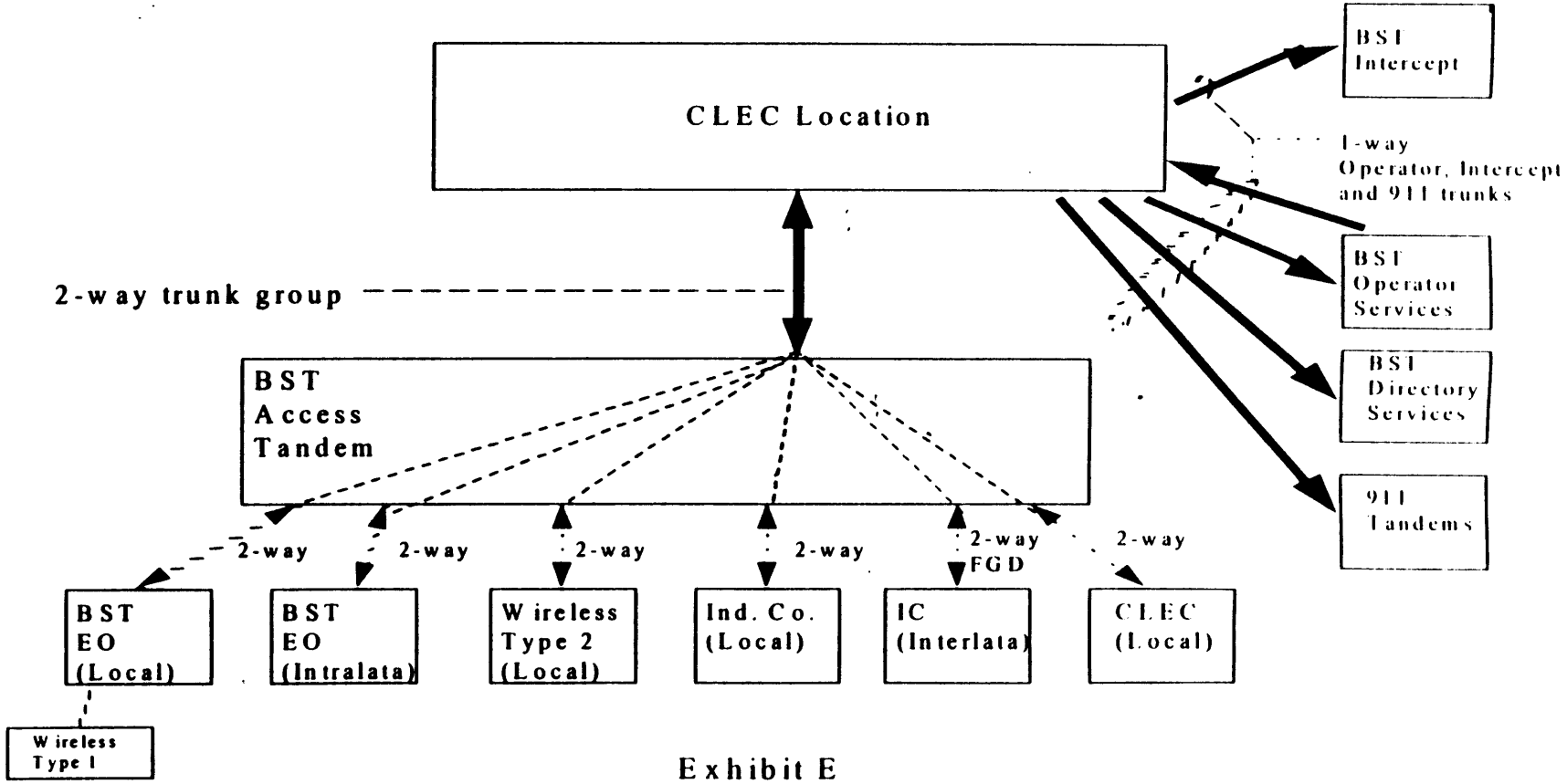


Exhibit E

BELLSOUTH/GLOBAL CROSSING RATES
LOCAL INTERCONNECTION

DESCRIPTION	USOC	RATES BY STATE								
		AL	FL	GA	KY	LA	MS	NC	SC	IN
LOCAL INTERCONNECTION (CALL TRANSPORT AND TERMINATION)										
End Office Switching, per mou	N/A	$0.0018	NA	$0.0016333	$0.002562	NA	$0.0023771	$0.004	$0.0019295	$0.0019
Direct Local Interconnection, per mou (same as End Office Switching in FL & LA)		NA	$0.002	NA	NA	$0.00209	NA	NA	NA	NA
Tandem Switching, per mou	N/A	$0.00063	$0.00029	$0.0006757	$0.001096	NA	$0.0007834	$0.0015	$0.0006843	$0.000676
Tandem Switching (assumes 5 miles of transport per mou)	N/A	NA	NA	NA	NA	$0.00430	NA	NA	NA	NA
Tandem Local Interconnection, per mou (includes end office switching element)		NA	$0.00325	NA	NA	$0.00639	NA	NA	NA	NA
Multiple Tandem Switching, per mou (applies to initial tandem only), effective 10/99		NA	$0.00125	NA	NA	$0.00430	NA	NA	NA	NA
Local Intermediary, per mou (applies to transit traffic only)		NA	$0.00125	NA	NA	$0.00430	NA	NA	NA	NA
Tandem Intermediary Charge, per mou*	N/A	$0.0015	NA	NA	$0.001096	NA	NA	NA	NA	NA
*(This charge is applicable only to transit traffic and is applied in addition to applicable switching and/or interconnection charges.)										
TRUNK PORT CHARGE										
All terms and conditions, as well as charges, both non-recurring and recurring, associated with interconnecting trunk groups between BellSouth and CLEC-1 shall be as set forth in Section E.6 of the appropriate BellSouth intrastate access tariff. At such time as BellSouth develops a cost based rate for such interconnecting trunk groups, the Parties shall amend this agreement to include such cost based rates and shall true up such charges in accordance with this Attachment.		BST State Access Tariff Rates	BST State Access Tariff Rates	BST State Access Tariff Rates	BST State Access Tariff Rates	BST State Access Tariff Rates	BST State Access Tariff Rates	BST State Access Tariff Rates	BST State Access Tariff Rates	BST State Access Tariff Rates
INTEROFFICE TRANSPORT										
Common (Shared) Transport										
Common (Shared) Transport per mile per mou	N/A	$0.00001	$0.000012	$0.000008	$0.0000049	$0.0000083	$0.0000091	$0.00001	$0.0000121	$0.00004
Common (Shared) Transport Facilities Termination per mou	N/A	$0.00045	$0.0005	$0.0004152	$0.000426	$0.00047	$0.0004281	$0.00034	$0.0004672	$0.00036
Interoffice Channel Transport - Dedicated - VG										
Interoffice Transport - Dedicated - 2-Wire VG - per mile	1L;5XF	$0.03390	NA	$0.0222	NA	$0.0384	NA	0282	$0.0373	$0.0173
Interoffice Transport - Dedicated - 2-Wire VG - facilities termination per month	1L;5XF	$18.49	NA	$17.07	NA	$19.10	NA	$18.00	$21.42	$18.33
NRC - 1st	1L;5XF	$144.27	NA	$79.61	NA	$104.23	NA	$137.48	$136.44	$83.35
NRC - Add'l	1L;5XF	$54.15	NA	$36.08	NA	$39.91	NA	$52.58	$51.37	$20.88
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$40.34	NA	$18.94	NA	$26.20	NA	$38.07	$39.63	$30.15
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$40.54	NA	$18.94	NA	$26.20	NA	$38.07	$39.63	$31.63
Interoffice Channel Transport - Dedicated - VG - Kentucky & Mississippi										
Interoffice Transport - Dedicated - 2-Wire VG - per mile	1L5NF	NA	NA	NA	$0.03	NA	$0.0323	NA	NA	NA
Interoffice Transport - Dedicated - 2-Wire VG - facilities termination per month	1L5NF	NA	NA	NA	$27.66	NA	$21.33	NA	NA	NA
NRC - Facility Termination -1st	1L5NF	NA	NA	NA	$142.31	NA	$144.77	NA	NA	NA
NRC - Facility Termination - Add'l	1L5NF	NA	NA	NA	$56.21	NA	$56.06	NA	NA	NA
NRC - Incremental Charge--Manual Svc Order - 1st	SOMAC	NA	NA	NA	$37.21	NA	$36.86	NA	NA	NA
NRC - Incremental Charge--Manual Svc Order - Add'l	SOMAC	NA	NA	NA	$37.21	NA	$36.86	NA	NA	NA
Interoffice Channel Transport - Dedicated - DS0 - 56/64 KBPS										
Interoffice Transport - Dedicated - DS0 - per mile per month	1L5XK	$0.0339	$0.0252	$0.0222	NA	$0.0384	NA	$0.0282	$0.0373	$0.17
Interoffice Transport - Dedicated - DS0 - facility termination per month	1L5XK	$17.81	$21.33	$16.45	NA	$18.37	NA	$17.40	$20.71	$17.74
NRC - 1st	1L5XK	$144.27	$137.15	$79.61	NA	$104.23	NA	$137.48	$136.44	$83.35
NRC - Add'l	1L5XK	$54.15	$64.45	$36.08	NA	$39.91	NA	$52.58	$51.37	$20.88
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$40.34	NA	$18.94	NA	$26.20	NA	$38.07	$39.63	$30.15
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$40.34	NA	$18.94	NA	$26.20	NA	$38.07	$39.63	$31.63
Interoffice Transport - Dedicated - DS0 - 56/64 KBPS - Kentucky & Mississippi										

BELLSOUTH/GLOBAL CROSSING RATES
LOCAL INTERCONNECTION

DESCRIPTION	USOC	RATES BY STATE								
		AL	FL	GA	KY	LA	MS	NC	SC	TN
DS0 - per mile	1L5NK	NA	NA	NA	$0 03	NA	$0 0323	NA	NA	NA
DS0 - Facility Termination	1L5NK	NA	NA	NA	$26.95	NA	$20 64	NA	NA	NA
NRC - Facility Termination - 1st	1L5NK	NA	NA	NA	$142.31	NA	$144 77	NA	NA	NA
NRC - Facility Termination - Add'l	1L5NK	NA	NA	NA	$56.21	NA	$56 06	NA	NA	NA
NRC - Incremental Charge--Manual Svc Order - 1st	SOMAC	NA	NA	NA	$37 21	NA	$36 86	NA	NA	NA
NRC - Incremental Charge--Manual Svc Order - Add'l	SOMAC	NA	NA	NA	$37.21	NA	$36 86	NA	NA	NA
Interoffice Channel Transport - Dedicated - DS1										
Interoffice Transport - Dedicated - DS1 - per mile per month	1L5XL	$0.69	$0 6013	$0 4523	NA	$0 7831	NA	$0 5753	$0 7598	$0 3525
Interoffice Transport - Dedicated - DS1 - facility termination per month	1L5XL	$79.69	$99.79	$78.47	NA	$93 40	NA	$71 29	$94 98	$75 83
NRC - 1st	1L5XL	$223.59	$45.91	$147.07	NA	$160 49	NA	$217 17	$216 27	$166 53
NRC - Add'l	1L5XL	$168.60	$44.18	$111.75	NA	$123 03	NA	$163 75	$162 70	$124 84
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$40.34	NA	$18.94	NA	$26.20	NA	$38 07	$39 63	$30 15
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$40.34	NA	$18.94	NA	$26.20	NA	$38 07	$39 63	$31 63
Interoffice Channel Transport - Dedicated - DS1 - Kentucky & Mississippi										
Interoffice Transport - Dedicated - DS1 - per mile per month	1L5NL	NA	NA	NA	$0.45	NA	$0 6598	NA	NA	NA
Interoffice Transport - Dedicated - DS1 - facilities termination per month	1L5NL	NA	NA	NA	$55.05	NA	$74 40	NA	NA	NA
NRC - Facility Termination - 1st	1L5NL	NA	NA	NA	$298 18	NA	$222 81	NA	NA	NA
NRC - Facility Termination - Add'l	1L5NL	NA	NA	NA	$231.23	NA	$168 92	NA	NA	NA
NRC - Incremental Charge--Manual Svc Order - 1st	SOMAC	NA	NA	NA	NA	NA	$36 83	NA	NA	NA
NRC - Incremental Charge--Manual Svc Order - Add'l	SOMAC	NA	NA	NA	NA	NA	$36 86	NA	NA	NA
Interoffice Channel Transport - Dedicated - DS3										
Interoffice Transport - Dedicated - DS3 - per mile per month	1L5XM	$12.56	$10.22	$6.53	NA	$14 04	NA	$12 98	$19 08	$5 89
Interoffice Transport - Dedicated - DS3 - facility termination per month	1L5XM	$771.60	$984.55	$725.53	NA	$1,101.00	NA	$720 38	$960 82	$760 20
NRC - 1st	1L5XM	$961.93	$772.93	$778 80	NA	$713 57	NA	$794 94	$941 07	$729 27
NRC - Add'l	1L5XM	$532.45	$435.92	$439 62	NA	$404 36	NA	$579 55	$503 72	$411 98
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$100.19	NA	$77.41	NA	$71 19	NA	$91 26	$92 52	$75 98
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$100.19	NA	$77.41	NA	$71 19	NA	$91 26	$92 52	$75 98
Interoffice Channel Transport - Dedicated - DS3 - Kentucky & Mississippi										
Interoffice Channel Transport - Dedicated - DS3 - per mile										
Interoffice Transport - Dedicated - DS3 - facility termination per month	1L5NM	NA	NA	NA	$12 62	NA	$15 02	NA	NA	NA
NRC - DS3 - Facility Termination -1st	1L5NM	NA	NA	NA	$1,204 00	NA	$744 38	NA	NA	NA
NRC - DS3 - Facility Termination - Add'l	1L5NM	NA	NA	NA	$946 23	NA	$812 30	NA	NA	NA
NRC - Incremental Charge--Manual Svc Order - 1st	SOMAC	NA	NA	NA	$516.89	NA	$596 55	NA	NA	NA
NRC - Incremental Charge--Manual Svc Order - Add'l	SOMAC	NA	NA	NA	$93.12	NA	$64 97	NA	NA	NA
Local Channel - Dedicated										
Local Channel - Dedicated - 2-Wire VG										
Monthly Recurring	TEFV2	$14.61	$18 02	$13 91	$22 26	$14 94	$17 83	$14 [illegible]	$16 83	$19 02
NRC - 1st	TEFV2	$572.46	$477 33	$382 95	$597 14	$401 17	$565 31	$55[illegible]	$554 00	$254 14
NRC - Add'l	TEFV2	$92.07	$124.32	$62 40	$110 52	$66 35	$93 30	$86 69	$88 58	$28 90
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$45.12	NA	$18 94	$41 46	$29 54	$41 57	$42 17	$43 75	$31 65
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$18.73	NA	$8.42	NA	$19 46	$27 39	$12 76	$13 55	$21 84
Local Channel - Dedicated - 4-Wire VG										
Monthly Recurring	TEFV4	$15.77	$19.01	$14 99	$23 38	$16 21	$19 03	$15 87	$18 05	$20 14
NRC - 1st	TEFV4	$581.14	$477.33	$368 44	$585 15	$407 11	$573 83	$562 23	$562 46	$257 05
NRC - Add'l	TEFV4	$95.21	$124 32	$64 05	$98 53	$68 61	$96 40	$92 67	$91 57	$ 10 14
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$45.12	NA	$18 94	$98 53	$29 54	$41 57	$42 17	$41 64	$31 65

BELLSOUTH/GLOBAL CROSSING RATES
LOCAL INTERCONNECTION

DESCRIPTION	USOC	RATES BY STATE								
		AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$18.73	NA	$8.42	$11.99	$19.46	$27.39	$12.76	$13.55	$21.84
Local Channel - Dedicated - DS1										
Monthly Recurring	TEFHG	$35.52	$44.35	$38.36	$43.80	$43.80	$38.91	$35.68	$37.20	$40.27
NRC - 1st	TEFHG	$549.85	$246.50	$356.15	$538.95	$396.86	$588.53	$534.48	$534.81	$343.71
NRC - Add'l	TEFHG	$475.02	$230.49	$312.89	$464.94	$342.92	$501.32	$462.69	$462.81	$277.86
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$91.22	NA	$44.22	$87.71	$61.82	$81.30	$42.17	$87.99	$23.51
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	NA	NA	NA	NA	NA	NA	$12.76	$3.11	$21.75
Local Channel - Dedicated – DS3										
Monthly Recurring	TEFHJ	$559.98	$630.65	$558.51	$697.89	$696.07	$533.33	$498.87	$602.18	$633.15
NRC - 1st	TEFHJ	$1,106.14	$879.42	$882.03	$1,091.00	$811.30	$569.08	$562.25	$1,091.00	$829.52
NRC - Add'l	TEFHJ	$676.66	$542.41	$545.85	$661.23	$502.09	$534.58	$527.88	$654.13	$512.23
NRC - Incremental Charge - Manual Service Order - 1st	SOMAC	$100.19	NA	$77.41	$93.12	$71.19	$56.84	$56.25	$92.52	$75.98
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAC	$100.19	NA	$77.41	$93.12	$71.19	$56.84	$56.25	$92.52	$53.03
CHANNELIZATION										
DS3 Channelization (DS3 to DS1)										
per Channelized System per month	SATCS	$210.87	$213.22	$173.51	$236.32	$245.84	$229.30	$226.81	$204.07	$225.59
NRC - 1st	SATCS	$355.25	$280.12	$284.43	$425.41	$259.76	$356.80	$351.95	$423.77	$265.08
NRC - Add'l	SATCS	$245.86	$196.07	$199.98	$303.33	$182.64	$247.40	$243.76	$295.21	$185.94
NRC -1sr - Disconnect	SATCS	$78.43	$64.06	$66.76	NA	$60.96	$79.94	$77.90	NA	$61.09
NRC -Add'l - Disconnect	SATCS	$63.70	$52.60	$55.25	NA	$50.46	$65.20	$63.32	NA	$50.31
NRC - Channel System - Incremental Cost - Manual Svc. Order -1st	SOMAC	$28.44	NA	$21.61	$41.47	$19.74	$26.95	$28.13	$43.41	$21.71
NRC - Channel System - Incremental Cost - Manual Svc. Order - Add'l	SOMAC	$13.47	NA	$9.61	NA	$8.77	$11.98	$13.33	$15.36	$10.46
NRC - Channel System - Incremenatl Cost - Manual Svc. Order - Disconnect - 1s	SOMAC	$18.46	NA	$13.61	NA	$12.43	$16.97	$18.26	NA	$14.21
NRC - Channel System - Incremenatl Cost - Manual Svc. Order - Disconnect - Ad	SOMAC	$1.50	NA	NA	NA	NA	NA	$1.48	NA	$1.46
per Interface per month	SATCO	$4.53	$6.31	$7.13	$8.52	$7.55	$5.58	$4.61	$9.69	$3.91
NRC - 1st	SATCO	$15.85	$13.39	$13.45	$15.86	$12.29	$15.85	$15.76	$15.54	$12.61
NRC - Add'l	SATCO	$11.35	$9.59	$9.63	$11.36	$8.80	$11.35	$11.28	$11.13	$9.03
DS1 Channelization (DS1 to DS0)										
per Channelized System per month	SATC1	$139.58	$163.88	$137.97	$200.01	$209.87	$146.87	$177.72	$179.81	$165.21
NRC - 1st	SATC1	$269.98	$208.64	$212.01	$302.82	$193.63	$271.52	$267.19	$304.00	$197.21
NRC - Add'l	SATC1	$163.04	$126.61	$129.60	$184.20	$118.37	$164.56	$161.43	$178.92	$119.99
NRC -1sr - Disconnect	SATC1	$34.88	$26.42	$28.95	NA	$26.44	$36.38	$34.55	NA	$25.66
NRC -Add'l - Disconnect	SATC1	$21.32	$15.95	$18.43	NA	$16.83	$22.82	$21.14	NA	$15.81
NRC - Channel System - Incremental Cost - Manual Svc. Order -1st	SOMAC	$28.44	NA	$21.61	$41.47	$19.74	$26.95	$28.13	$43.41	$21.71
NRC - Channel System - Incremental Cost - Manual Svc. Order -Add'l	SOMAC	$13.47	NA	$9.61	$11.99	$8.77	$11.98	$13.33	$15.36	$10.46
NRC - Channel System - Incremental Cost - Manual Svc. Order - Disconnect -1s	SOMAC	$18.46	NA	$13.61	NA	$12.43	$16.97	$18.26	NA	$14.21
NRC - Channel System - Incremental Cost - Manual Svc. Order - Disconnect -Ad	SOMAC	$1.50	NA	NA	NA	NA	NA	$1.48	NA	$1.46
DS1 Channization Interfaces										
per OCU-DP(data) card per month(2.4-64kbps)	SATSA	$2.61	$3.13	$2.65	$2.94	$3.12	$2.86	$2.88	$3.36	$2.46
NRC - 1st	SATSA	$15.85	$13.39	$13.45	$15.86	$12.29	$15.85	$15.76	$15.54	$12.61
NRC - Add'l	SATSA	$11.35	$9.59	$9.63	$11.36	$8.80	$11.35	$11.28	$11.13	$9.03
per VG card per month	SATSA	$1.26	$1.78	$1.48	$1.40	$1.62	$1.45	$1.64	$1.93	$1.25
NRC - 1st	SATSA	$15.85	$13.39	$13.45	$15.86	$12.29	$15.85	$15.76	$15.54	$12.61
NRC - Add'l	SATSA	$11.35	$9.59	$9.63	$11.36	$8.80	$11.35	$11.28	$11.13	$9.03
Local Interconnection Mid-Span Meet										
Local Channel - Dedicated - DS1										
DS1 Monthly Recurring per month	TEFHG	$17.76	$22.18	$19.18	$21.90	$21.90	$19.46	$17.85	$18.60	$20.14
NRC - DS1 - 1st	TEFHG	$251.79	$123.25	$178.08	$269.48	$174.28	$247.42	$268.83	$267.41	$118.68

BELLSOUTH/GLOBAL CROSSING RATES
LOCAL INTERCONNECTION

DESCRIPTION	USOC	RATES BY STATE AL	FL	GA	KY	LA	MS	NC	SC	TN
NRC - DS1 - Add'l	TEFHG	$221.42	$115.25	$156.45	$232.47	$150.15	$217.64	$232.73	$231.41	$116.63
NRC - DS1 - Disconnect Chg - 1st	TEFHG	$23.14	NA	NA	NA	$12.08	$23.43	NA	NA	$16.59
NRC - DS1 - Disconnect Chg - Add'l	TEFHG	$16.09	NA	NA	NA	$10.66	$16.51	NA	NA	$11.15
NRC - DS1 - Incremental Charge--Manual Svc Order - 1st	SOMAC	$61.95	NA	$44.22	$87.71	$42.34	$59.58	$623.92	$87.99	$45.68
NRC - DS1 - Incremental Charge--Manual Svc Order - Add'l	SOMAC	$0.00	NA	NA	NA	NA	NA	$467.22	$3.11	$1.76
NRC - DS1 - Incremental Charge--Manual Svc Order-Disconnect	SOMAC	$29.27	NA	NA	NA	$19.48	$27.51	NA	NA	$21.75
Rates For CLEC-1 Remote Access Concentrator (RAS) Interconnection										
Port Termination charges apply in all cases										
Per DS1 Port Termination:										
Monthly Recurring Per DS1:	TBD	$133.89	$133.14	$150.86	$150.11	$162.95	$133.22	$147.71	$146.06	
Non-recurring per DS1:										
Non-recurring initial DS1	TBD	$223.59	$147.07	$298.18	$160.49	$222.81	$218.28	$216.27	$166.53	
Non-recurring per additional DS1	TBD	$168.60	$111.75	$231.23	$123.03	$168.92	$164.55	$162.70	$124.84	
NRC - Incremental Charge - Manual Service Order - 1st	TBD	$40.34	$18.94	NA	$26.20	$36.83	$38.12	$39.63	$30.15	
NRC - Incremental Charge - Manual Service Order - Add'l	TBD	$40.34	$18.94	NA	$26.20	$36.86	$38.12	$39.63	$31.63	
Per DS3 Port Termination:										
Total Monthly Recurring per DS3:	TBD	$4,130.93	$4,178.21	$4,687.59	$4,794.16	$5,105.69	$4,237.73	$4,666.49	$4,611.99	
Total Non-recurring per DS3:										
Non-recurring initial DS3	TBD	$961.93	$778.80	$946.23	$713.57	$812.30	$798.95	$941.07	$729.27	
Non-recurring per additional DS3	TBD	$532.45	$439.62	$516.89	$404.36	$596.55	$582.33	$503.72	$411.98	
NRC - Incremental Charge - Manual Service Order - 1st	TBD	$100.19	$77.41	$93.12	$71.19	$64.97	$91.37	$92.52	$75.98	
NRC - Incremental Charge - Manual Service Order - Add'l	TBD	$100.19	$77.41	$93.12	$71.19	$64.97	$91.37	$92.52	$75.98	
See Channelization rates in this Exhibit.										
Switching and Transport:										
In addition to Port Termination charges, these charges apply to BellSouth calls originating from BellSouth rate centers that are "IntraLATA toll" to the rate center where CLEC-1's RAS is located.										
Interoffice Transport - Dedicated Per DS1										
Per Mile per month	TBD	$0.69200	$0.45230	$0.45000	$0.78310	$0.65980	$0.57590	$0.75980	$0.35250	
Facility Termination per Month	TBD	$79.69	$78.47	$55.05	$93.40	$74.40	$71.32	$94.98	$75.83	
Non-recurring initial DS1	TBD	$223.59	$147.07	$298.18	$160.49	$222.81	$218.28	$216.27	$166.53	
Non-recurring per additional DS1	TBD	$168.60	$111.75	$231.23	$123.03	$168.92	$164.55	$162.70	$124.84	
NRC - Incremental Charge - Manual Service Order - 1st	TBD	$40.34	$18.94	NA	$26.20	$36.83	$38.12	$39.63	$30.15	
NRC - Incremental Charge - Manual Service Order - Add'l	TBD	$40.34	$18.94	NA	$26.20	$36.86	$38.12	$39.63	$31.63	
Interoffice Transport - Dedicated Per DS3										
Per Mile per month	TBD	$12.56	$6.53	$12.62	$14.04	$15.02	$13.00	$19.08	$5.89	
Facility Termination per Month	TBD	$771.60	$725.53	$1,204.00	$1,101.00	$[illegible]98	$720.65	$960.82	$760.20	
Non-recurring initial DS3	TBD	$961.93	$778.80	$946.23	$713.57	$812.30	$798.95	$941.07	$729.27	
Non-recurring per additional DS3	TBD	$532.45	$439.62	$516.89	$404.36	$596.55	$582.33	$503.72	$411.98	
NRC - Incremental Charge - Manual Service Order - 1st	TBD	$100.19	$77.41	$93.12	$71.19	$64.97	$91.37	$92.52	$75.98	
NRC - Incremental Charge - Manual Service Order - Add'l	TBD	$100.19	$77.41	$93.12	$71.19	$64.97	$91.37	$92.52	$75.98	

BELLSOUTH/GLOBAL CROSSING RATES
LOCAL INTERCONNECTION

DESCRIPTION	USOC	RATES BY STATE								
		AL	FL	GA	KY	LA	MS	NC	SC	TN
Common Transport:										
Per Mile per MOU	TBD	$0.0000100	$0.0000080	$0.0000049	$0.0000083	$0.0000091	$0.0000400	$0.0000121	$0.0000400	
Facility Termination - Per MOU	TBD	$0.0004500	$0.0004152	$0.0004260	$0.0004700	$0.0004281	$0.0003600	$0.0004672	$0.0003800	
Tandem Switching:										
Per MOU	TBD	$0.0006300	$0.0006757	$0.0010960	$0.0043000	$0.0007834	$0.0015000	$0.0006843	$0.0006760	
Shared trunk port per port per MOU (EO side)	TBD	$0.0003300	$0.0002126	$0.0003796	$0.0003000	$0.0002834	$0.0003693	$0.0004034	$0.0003904	
Total:	TBD	$0.0009600	$0.0008883	$0.0014756	$0.0046000	$0.0010668	$0.0018693	$0.0010877	$0.0010664	
NOTES:										
If no rate is identified in the contract, the rate for the specific service or function will be as set forth in applicable BellSouth tariff or as negotiated by the parties upon request by either party										

Attachment 4

Physical Collocation

BELLSOUTH
PHYSICAL COLLOCATION

1. Scope of Attachment

1.1 Scope of Attachment. The rates, terms, and conditions contained within this Attachment shall only apply when Global Crossing is occupying the Collocation Space as a sole occupant or as a Host within a Premises location pursuant to Section 4.

All the negotiated rates, terms and conditions set forth in this Attachment pertain to collocation and the provisioning of Collocation Space.

1.2 Right to occupy. BellSouth shall offer to Global Crossing collocation on rates, terms, and conditions that are just, reasonable, non-discriminatory and consistent with the rules of the Federal Communications Commission ("FCC"). Subject to Section 4 of this Attachment, BellSouth hereby grants to Global Crossing a right to occupy that certain area designated by BellSouth within a BellSouth Premises, of a size which is specified by Global Crossing and agreed to by BellSouth (hereinafter "Collocation Space"). BellSouth Premises include BellSouth Central Offices and Serving Wire Centers, as well as all buildings or similar structures owned or leased by BellSouth that house BellSouth Network Facilities and all structures that house facilities on public rights-of-way, including but not limited to, vaults containing loop concentrators and other similar structures. To the extent this Attachment does not include all the necessary rates, terms and conditions for BellSouth Premises other than BellSouth Central Offices, the Parties will negotiate said rates, terms, and conditions at the request for collocation at BellSouth Premises other than a Central Office. Notwithstanding the foregoing, BellSouth shall consider in its designation for cageless collocation any unused space within the BellSouth Premises. The size specified by Global Crossing may contemplate a request for space sufficient to accommodate Global Crossing's growth within a two year period.

1.2.1 Space Reclamation. In the event of space exhaust within a Central Office Premises, BellSouth may include in its documentation for the Petition for Waiver filing any unused space in the Central Office Premises. Global Crossing will be responsible for any justification of unused space within its space, if such justification is required by the appropriate state commission.

1.3 Use of Space. Global Crossing shall use the Collocation Space for the purposes of installing, maintaining and operating Global Crossing's equipment (to include testing and monitoring equipment) used or useful to interconnect with BellSouth services and facilities, including access to unbundled network elements, for the provision of telecommunications services. Pursuant to Section 5 following, Global Crossing may at its option, place Global Crossing-owned fiber entrance facilities to the Collocation Space. In addition to, and not in lieu of, interconnection to BellSouth services and facilities, Global Crossing may connect to other interconnectors within the designated

BellSouth Premises (including to its other virtual or physical collocated arrangements) through co-carrier cross connect facilities designated by Global Crossing pursuant to section 5.6 following. The Collocation Space may be used for no other purposes except as specifically described herein or authorized in writing by BellSouth.

1.4 Rates and charges. Global Crossing agrees to pay the rates and charges identified in Exhibit A attached hereto.

2. Space Notification

2.1 Availability of Space. Upon submission of an application pursuant to Section 6, BellSouth will permit Global Crossing to physically collocate, pursuant to the terms of this Attachment, at any BellSouth Premises, unless BellSouth has determined that there is no space available due to space limitations or that physical collocation is not practical for technical reasons. BellSouth will respond to an application within ten (10) business days as to whether space is available or not available within a BellSouth Premises. If the amount of space requested is not available, BellSouth will notify Global Crossing of the amount of space that is available.

2.2 Reporting. Upon request from Global Crossing, BellSouth will provide a written report ("Space Availability Report") specifying the amount of Collocation Space available at the Premises requested, the number of collocators present at the Premises, any modifications in the use of the space since the last report on the Premises requested and the measures BellSouth is taking to make additional space available for collocation arrangements.

2.2.1 The request from Global Crossing for a Space Availability Report must be written and must include the Premises and Common Language Location Identification ("CLLI") code of the Premises. Such information regarding Premises and CLLI code is located in the National Exchange Carriers Association (NECA) Tariff FCC No. 4.

2.2.2 BellSouth will respond to a request for a Space Availability Report for a particular Premises within ten (10) business days of receipt of such request. BellSouth will make best efforts to respond in ten (10) business days to such a request when the request includes from two (2) to five (5) Premises within the same state. The response time for requests of more than five (5) Premises shall be negotiated between the Parties. If BellSouth cannot meet the ten business day response time, BellSouth shall notify Global Crossing and inform Global Crossing of the time frame under which it can respond.

2.3 Denial of Application. After notifying Global Crossing that BellSouth has no available space in the requested Premises ("Denial of Application"), BellSouth will allow Global Crossing, upon request, to tour the entire Premises within ten (10) business days of such Denial of Application. In order to schedule said tour within ten

(10) business days, the request for a tour of the Premises must be received by BellSouth within five (5) business days of the Denial of Application.

2.4 Filing of Petition for Waiver. Upon Denial of Application BellSouth will timely file a petition with the Commission pursuant to 47 U.S.C. § 251(c)(6).

2.5 Waiting List. On a first-come, first-served basis governed by the date of receipt of an application or Letter of Intent, BellSouth will maintain a waiting list of requesting carriers who have either received a Denial of Application or, where it is publicly known that the Premises is out of space, have submitted a Letter of Intent to collocate. BellSouth will notify the telecommunications carriers on the waiting list when space becomes available according to how much space becomes available and the position of telecommunications carrier on said waiting list. Global Crossing must submit an updated, complete, and correct application to BellSouth within 30 business days or notify BellSouth in writing that Global Crossing wants to maintain its place on the waiting list either without accepting such space or accepting an amount of space less than its original request. If Global Crossing does not submit such an application or notify BellSouth in writing as described above, BellSouth will offer such space to the next CLEC on the waiting list and remove Global Crossing from the waiting list. Upon request, BellSouth will advise Global Crossing as to its position on the list.

2.6 Public Notification. BellSouth will maintain on its Interconnection Services website a notification document that will indicate all Central Offices that are without available space. BellSouth shall update such document within ten (10) business days of the Denial of Application date. BellSouth will also post a document on its Interconnection Services website that contains a general notice where space has become available in a Central Office previously on the space exhaust list. BellSouth shall allocate said available space pursuant to the waiting list referenced in Section 2.5.

2.7 State Agency Procedures. Notwithstanding the foregoing, should any state regulatory agency impose procedures or intervals different than procedures or intervals set forth in this section, whether now in effect or that become effective after execution of this Agreement, those procedures or intervals shall supersede the requirements set forth herein for all applications submitted for the first time after the effective date thereof.

3. Collocation Options

3.1 Cageless. In accordance and compliance with local building code, BellSouth shall allow Global Crossing to collocate Global Crossing's equipment and facilities without requiring the construction of a cage or similar structure and without requiring the creation of a separate entrance to the Collocation Space. BellSouth shall allow Global Crossing to have direct access to its equipment and facilities but may require Global Crossing to use a central entrance to the BellSouth Premises. BellSouth shall make cageless collocation available in single bay increments pursuant to Section 7.

Except where Global Crossing's equipment requires special technical considerations (e.g., special cable racking, isolated ground plane), BellSouth shall assign cageless Collocation Space in conventional equipment rack lineups where feasible. For equipment requiring special technical considerations, Global Crossing must provide the equipment layout, including spatial dimensions for such equipment pursuant to generic requirements contained in BellCore (Telcordia) GR-63-Core and shall be responsible for constructing all special technical requirements associated with such equipment pursuant to Section 6.5 following.

3.2 Cages and Adjacent Arrangement Enclosures. At Global Crossing's option and upon request, BellSouth shall construct enclosures in compliance with Global Crossing's collocation request and in accordance and compliance with local building code. At Global Crossing's request, BellSouth shall permit Global Crossing to subcontract the construction of physical collocation arrangements with a contractor certified by BellSouth ("BellSouth Certified Contractor"), provided however, that BellSouth shall not unreasonably withhold approval of contractors.

3.3 When Global Crossing subcontracts the construction, Global Crossing must arrange with a BellSouth Certified Contractor to construct a collocation arrangement enclosure in accordance with BellSouth's guidelines and specifications and at Global Crossing's sole expense. BellSouth will provide guidelines and specifications upon request. Where local building codes require enclosure specifications more stringent than BellSouth's standard enclosure specification, Global Crossing and Global Crossing's BellSouth Certified Contractor must comply with local building code requirements. Global Crossing's BellSouth Certified Contractor shall be responsible for filing and receiving any and all necessary permits and/or licenses for such construction. BellSouth shall cooperate with Global Crossing and provide, at Global Crossing's expense, the documentation, including architectural drawings, necessary for Global Crossing to obtain the zoning, permits and/or other licenses. BellSouth shall pass on to Global Crossing the costs of providing the documentation. The BellSouth Certified Contractor shall bill Global Crossing directly for all work performed for Global Crossing pursuant to this Attachment and BellSouth shall have no liability for nor responsibility to pay such charges imposed by the BellSouth Certified Contractor. Global Crossing must provide the local BellSouth building contact with two Access Keys used to enter the locked enclosure. Except in case of emergency, BellSouth will not access Global Crossing's locked enclosure prior to notifying Global Crossing.

3.3.1 BellSouth has the right to review Global Crossing's plans and specifications prior to allowing construction to start. BellSouth has the right to inspect the enclosure after construction to make sure it is designed and constructed according to BellSouth's guidelines and specifications and to require Global Crossing to remove or correct at Global Crossing's cost any structure that does not meet these standards.

3.4 Shared (Subleased) Caged Collocation. Global Crossing may allow other telecommunications carriers to share Global Crossing's caged collocation

arrangement pursuant to terms and conditions agreed to by Global Crossing ("Host") and other telecommunications carriers ("Guests") and pursuant to this section in accordance and compliance with local building code, except where the BellSouth Premises is located within a leased space and BellSouth is prohibited by said lease from offering such an option. Global Crossing shall notify BellSouth in writing upon execution of any agreement between the Host and its Guest within ten (10) business days of its execution and prior to any Firm Order. Further, such notice shall include the name of the Guest(s) and the term of the agreement, and shall contain a certification by Global Crossing that said agreement imposes upon the Guest(s) the same terms and conditions for Collocation Space as set forth in this Attachment between BellSouth and Global Crossing.

3.4.1 Global Crossing shall be the sole interface and responsible Party to BellSouth for the purpose of submitting applications for initial and additional equipment placements of Guest; for assessment of rates and charges contained within this Attachment; and for the purposes of ensuring that the safety and security requirements of this Attachment are fully complied with by the Guest, its employees and agents. In the event the Host and Guest jointly submit an initial Application, only one Application Fee will be assessed. A separate initial Guest application shall require the assessment of a Subsequent Application Fee, as set forth in Exhibit A, if this application is not the initial application made for the arrangement. Notwithstanding the foregoing, Guest may arrange directly with BellSouth for the provision of the interconnecting facilities between BellSouth and Guest and for the provision of the services and access to unbundled network elements.

3.4.2 Global Crossing shall indemnify and hold harmless BellSouth from any and all claims, actions, causes of action, of whatever kind or nature arising out of the presence of Global Crossing's Guests in the Collocation Space except to the extent caused by BellSouth's sole negligence, gross negligence, or willful misconduct.

3.5 Adjacent Collocation. BellSouth will provide adjacent collocation arrangements ("Adjacent Arrangement") where space within the Premises is legitimately exhausted, subject to technical feasibility, where the Adjacent Arrangement does not interfere with access to existing or planned structures or facilities on the Premises property and where permitted by zoning and other applicable state and local regulations. The Adjacent Arrangement shall be constructed or procured by Global Crossing and in conformance with BellSouth's design and construction specifications. Further, Global Crossing shall construct, procure, maintain and operate said Adjacent Arrangement(s) pursuant to all of the terms and conditions set forth in this Attachment. Rates shall be negotiated at the time of the request for the Adjacent Arrangement.

3.4.1 Should Global Crossing elect such option, Global Crossing must arrange with a BellSouth Certified Contractor to construct an Adjacent Arrangement structure in accordance with BellSouth's guidelines and specifications. BellSouth will provide guidelines and specifications upon request. Where local building codes require

enclosure specifications more stringent than BellSouth's standard specification. Global Crossing and Global Crossing's BellSouth Certified Contractor must comply with local building code requirements. Global Crossing's BellSouth Certified Contractor shall be responsible for filing and receiving any and all necessary zoning, permits and/or licenses for such construction. Global Crossing's BellSouth Certified Contractor shall bill Global Crossing directly for all work performed for Global Crossing pursuant to this Attachment and BellSouth shall have no liability for nor responsibility to pay such charges imposed by the BellSouth Certified Contractor. Global Crossing must provide the local BellSouth building contact with two cards, keys or other access device used to enter the locked enclosure. Except in cases of emergency, BellSouth shall not access Global Crossing's locked enclosure prior to notifying Global Crossing.

3.4.2 BellSouth maintains the right to review Global Crossing's plans and specifications prior to construction of an Adjacent Arrangement(s). BellSouth may inspect the Adjacent Arrangement(s) following construction and prior to the Commencement Date, as defined in Section 4.1 following, to ensure the design and construction comply with BellSouth's guidelines and specifications. BellSouth may require Global Crossing, at Global Crossing's sole cost, to correct any deviations from BellSouth's guidelines and specifications found during such inspection(s), up to and including removal of the Adjacent Arrangement, within five (5) business days of BellSouth's inspection, unless the Parties mutually agree to an alternative time frame.

3.4.3 Global Crossing shall provide a concrete pad, the structure housing the arrangement, heating/ventilation/air conditioning ("HVAC"), lighting, and all facilities that connect the structure (i.e. racking, conduits, etc.) to the BellSouth point of interconnection. At Global Crossing's option, and where the local authority having jurisdiction permits, BellSouth shall provide an AC power source and access to physical collocation services and facilities subject to the same nondiscriminatory requirements as applicable to any other physical collocation arrangement. Global Crossing's BellSouth Certified Contractor shall be responsible for filing and receiving any and all necessary zoning, permits and/or licenses for such arrangement.

3.5.1 BellSouth shall allow Shared (Subleased) Caged Collocation within an Adjacent Arrangement pursuant to the terms and conditions set forth in Section 3.3 preceding.

4. Occupancy

4.1 Commencement Date. The "Commencement Date" shall be the day Global Crossing's equipment becomes operational as described in Article 4.2, following.

4.2 Occupancy. BellSouth will notify Global Crossing in writing that the Collocation Space is ready for occupancy. Global Crossing must notify BellSouth in writing that collocation equipment installation is complete and is operational with BellSouth's network. BellSouth may, at its option, not accept orders for interconnected service

until receipt of such notice. For purposes of this paragraph, Global Crossing's telecommunications equipment will be deemed operational when cross-connected to BellSouth's network for the purpose of service provision.

4.3 Termination. Except where otherwise agreed to by the Parties, Global Crossing may terminate occupancy in a particular Collocation Space upon thirty (30) business days prior written notice to BellSouth. Upon termination of such occupancy, Global Crossing at its expense shall remove its equipment and other property from the Collocation Space. Global Crossing shall have thirty (30) business days from the termination date to complete such removal, including the removal of all equipment and facilities of Global Crossing's Guests; provided, however, that Global Crossing shall continue payment of monthly fees to BellSouth until such date as Global Crossing has fully vacated the Collocation Space. Should Global Crossing or Global Crossing's Guest fail to vacate the Collocation Space within thirty (30) business days from the termination date, BellSouth shall have the right to remove the equipment and other property of Global Crossing or Global Crossing's Guest at Global Crossing's expense and with no liability for damage or injury to Global Crossing or Global Crossing's Guest's property unless caused by the gross negligence or intentional misconduct of BellSouth. Upon expiration of this Attachment with respect to a Collocation Space, Global Crossing shall surrender such Collocation Space to BellSouth in the same condition as when first occupied by the Global Crossing except for ordinary wear and tear unless otherwise agreed to by the Parties. Global Crossing shall be responsible for the cost of removing any enclosure, together with all support structures (e.g., racking, conduits), of an Adjacent Collocation arrangement at the termination of occupancy and restoring the grounds to their original condition.

5. Use of Collocation Space

5.1 Equipment Type. BellSouth permits the collocation of any type of equipment used or useful for interconnection to BellSouth's network or for access to unbundled network elements in the provision of telecommunications services. Such equipment used or useful for interconnection and access to unbundled network elements includes, but is not limited to transmission equipment including, but not limited to, optical terminating equipment and multiplexers, and digital subscriber line access multiplexers, routers, asynchronous transfer mode multiplexers, and remote switching modules. Nothing in this section requires BellSouth to permit collocation of equipment used solely to provide enhanced services; provided, however, that BellSouth may not place any limitations on the ability of requesting carriers to use all the features, functions, and capabilities of equipment collocated pursuant to this section.

5.1.1 Such equipment must at a minimum meet the following BellCore (Telcordia) Network Equipment Building Systems (NEBS) General Equipment Requirements: Criteria Level 1 requirements as outlined in the BellCore (Telcordia) Special Report SR-3580, Issue 1; equipment design spatial requirements per GR-63-CORE, Section

2; thermal heat dissipation per GR-063-CORE, Section 4, Criteria 77-79; acoustic noise per GR-063-CORE, Section 4, Criterion 128, and National Electric Code standards.

5.1.2 Global Crossing shall not use the Collocation Space for marketing purposes nor shall it place any identifying signs or markings in the area surrounding the Collocation Space or on the grounds of the Premises.

5.1.3 Global Crossing shall place a plaque or other identification affixed to Global Crossing's equipment necessary to identify Global Crossing's equipment, including a list of emergency contacts with telephone numbers.

5.2 Entrance Facilities. Global Crossing may elect to place Global Crossing-owned or Global Crossing-leased fiber entrance facilities into the Collocation Space. BellSouth will designate the point of entrance in close proximity to the Premises building housing the Collocation Space, such as an entrance manhole or a cable vault which are physically accessible by both Parties. Global Crossing will provide and place fiber cable at the point of entrance of sufficient length to be pulled through conduit and into the splice location. Global Crossing will provide and install a sufficient length of fire retardant riser cable, to which the entrance cable will be spliced, which will extend from the splice location to Global Crossing's equipment in the Collocation Space. In the event Global Crossing utilizes a non-metallic, riser-type entrance facility, a splice will not be required. Global Crossing must contact BellSouth for instructions prior to placing the entrance facility cable in the manhole. Global Crossing is responsible for maintenance of the entrance facilities. At Global Crossing's option BellSouth will accommodate where technically feasible a microwave entrance facility pursuant to separately negotiated terms and conditions.

5.2.1 Dual Entrance. BellSouth will provide at least two interconnection points at each Premises where there are at least two such interconnection points available and where capacity exists. Upon receipt of a request for physical collocation under this Attachment, BellSouth shall provide Global Crossing with information regarding BellSouth's capacity to accommodate dual entrance facilities. If conduit in the serving manhole(s) is available and is not reserved for another purpose for utilization within 12 months of the receipt of an application for collocation, BellSouth will make the requested conduit space available for installing a second entrance facility to Global Crossing's arrangement. The location of the serving manhole(s) will be determined at the sole discretion of BellSouth. Where dual entrance is not available due to lack of capacity, BellSouth will so state in the Application Response.

5.2.2 Shared Use. Global Crossing may utilize spare capacity on an existing interconnector entrance facility for the purpose of providing an entrance facility to another Global Crossing collocation arrangement within the same BellSouth Premises. Global Crossing must arrange with BellSouth for BellSouth to splice the utilized entrance facility capacity to Global Crossing-provided riser cable.

5.3 Splicing in the Entrance Manhole. Although not generally permitted, should Global Crossing request a splice to occur in the entrance manhole(s), BellSouth, at its sole discretion, may grant such a request. When the request for a splice is granted to Global Crossing by BellSouth, Global Crossing shall ensure its employees or agents entering and/or performing work in the entrance manhole(s) are trained and comply with BellSouth procedures and OSHA requirements regarding access to manholes and that BellSouth personnel are notified and present for all entrances and work performed in the entrance manhole(s). Manhole covers shall be properly closed and secured at the conclusion of entry and/or work. Advance notification to BellSouth shall occur at a minimum of 48 hours prior to desired entry for normal work activities and at a minimum of 2 hours prior to desired entry in an out of service condition.

5.4 Demarcation Point. BellSouth will designate the point(s) of interconnection between Global Crossing's equipment and/or network and BellSouth's network. Each Party will be responsible for maintenance and operation of all equipment/facilities on its side of the demarcation point. For 2-wire and 4-wire connections to BellSouth's network, the demarcation point shall be a common block on the BellSouth designated conventional distributing frame. Global Crossing shall be responsible for providing, and a supplier certified by BellSouth ("Global Crossing's BellSouth Certified Supplier") shall be responsible for installing and properly labeling/stenciling, the common block, and necessary cabling pursuant to Section 6.4. For all other terminations BellSouth shall designate a demarcation point on a per arrangement basis. Global Crossing or its agent must perform all required maintenance to equipment/facilities on its side of the demarcation point, pursuant to Section 5.5, following, and may self-provision cross-connects that may be required within the Collocation Space to activate service requests. At Global Crossing's option and expense, a Point of Termination ("POT") bay or frame may be placed in the Collocation Space, but will not serve as the demarcation point. Global Crossing must make arrangements with a BellSouth Certified Supplier for such placement.

5.5 Global Crossing's Equipment and Facilities. Global Crossing, or if required by this Attachment, Global Crossing's BellSouth Certified Supplier, is solely responsible for the design, engineering, installation, testing, provisioning, performance, monitoring, maintenance and repair of the equipment and facilities used by Global Crossing. Such equipment and facilities may include but are not limited to cable(s); equipment; and point of termination connections.

5.6 Co-carrier cross-connect. In addition to, and not in lieu of, obtaining interconnection with, or access to, BellSouth's telecommunications services, unbundled network elements, and facilities, Global Crossing may directly connect to other interconnectors within the designated BellSouth Premises (including to its other virtual or physical collocated arrangements) through facilities owned by Global Crossing or through BellSouth facilities designated by Global Crossing, at Global Crossing's option. Such connections to other carriers may be made using either optical or electrical facilities. Global Crossing may deploy such optical or electrical connections directly between its

own facilities and the facilities of other interconnector(s) without being routed through BellSouth equipment.

5.6.1 If Global Crossing requests a co-carrier cross-connect after the initial installation, Global Crossing must submit an application with a Subsequent Application Fee. Global Crossing must use a BellSouth Certified Supplier to place the co-carrier cross connect, except in cases where the Global Crossing equipment and the equipment of the other interconnector are located within contiguous Collocation Spaces. In cases where Global Crossing's equipment and the equipment of the other interconnector are located in contiguous Collocation Spaces, Global Crossing will have the option to deploy the co-carrier cross connects between the sets of equipment. Where cable support structure exists for such connection, there will be a recurring charge per linear foot of support structure used. When cable support structures do not exist and must be constructed, a pro-rated non-recurring charge for the individual case will be assessed to all that benefit from that construction.

5.7 BellSouth's Access to Collocation Space. From time to time BellSouth may require access to the Collocation Space. BellSouth retains the right to access such space for the purpose of making BellSouth equipment and building modifications (e.g., running, altering or removing racking, ducts, electrical wiring, HVAC, and cables). BellSouth will give reasonable notice to Global Crossing when access to the Collocation Space is required. Global Crossing may elect to be present whenever BellSouth performs work in the Collocation Space. The Parties agree that Global Crossing will not bear any of the expense associated with this work.

5.8 Access. Pursuant to Section 11, Global Crossing shall have access to the Collocation Space twenty-four (24) hours a day, seven (7) days a week. Global Crossing agrees to provide the name and social security number or date of birth or driver's license number of each employee, contractor, or agents of Global Crossing or Global Crossing's Guests provided with access keys or cards ("Access Keys") prior to the issuance of said Access Keys. Access Keys shall not be duplicated under any circumstances. Global Crossing agrees to be responsible for all Access Keys and for the return of all said Access Keys in the possession of Global Crossing employees, contractors, Guests, or agents after termination of the employment relationship, contractual obligation with Global Crossing or upon the termination of this Attachment or the termination of occupancy of an individual collocation arrangement.

5.8.1 Lost or Stolen Access Keys. Global Crossing shall notify BellSouth in writing immediately in the case of lost or stolen Access Keys. Should it become necessary for BellSouth to re-key buildings or deactivate a card as a result of a lost Access Key(s) or for failure to return an Access Key(s), Global Crossing shall pay for all reasonable costs associated with the re-keying or deactivating the card.

5.9 Interference or Impairment. Notwithstanding any other provisions of this Attachment, equipment and facilities placed in the Collocation Space shall not interfere with or impair service provided by BellSouth or by any other interconnector located in the

Premises; shall not endanger or damage the facilities of BellSouth or of any other interconnector, the Collocation Space, or the Premises; shall not compromise the privacy of any communications carried in, from, or through the Premises; and shall not create an unreasonable risk of injury or death to any individual or to the public. If BellSouth reasonably determines that any equipment or facilities of Global Crossing violates the provisions of this paragraph, BellSouth shall give written notice to Global Crossing, which notice shall direct Global Crossing to cure the violation within forty-eight (48) hours of Global Crossing's actual receipt of written notice or, at a minimum, to commence curative measures within 24 hours and to exercise reasonable diligence to complete such measures as soon as possible thereafter. After receipt of the notice, the Parties agree to consult immediately and, if necessary, to inspect the arrangement. If Global Crossing fails to take curative action within 48 hours or if the violation is of a character which poses an immediate and substantial threat of damage to property, injury or death to any person, or interference/impairment of the services provided by BellSouth or any other interconnector, then and only in that event BellSouth may take such action as it deems appropriate to correct the violation, including without limitation the interruption of electrical power to Global Crossing's equipment. BellSouth will endeavor, but is not required, to provide notice to Global Crossing prior to taking such action and shall have no liability to Global Crossing for any damages arising from such action, except to the extent that such action by BellSouth constitutes willful misconduct.

5.10 Personalty and its Removal. Subject to requirements of this Attachment, Global Crossing may place or install in or on the Collocation Space such facilities and equipment, including storage for spare equipment, as it deems desirable for the conduct of business, provided that such equipment is telecommunications equipment, does not violate floor loading requirements, nor imposes or could impose or contains or could contain environmental conditions or hazards. Personal property, facilities and equipment placed by Global Crossing in the Collocation Space shall not become a part of the Collocation Space, even if nailed, screwed or otherwise fastened to the Collocation Space, but shall retain their status as personalty and may be removed by Global Crossing at any time. Any damage caused to the Collocation Space by Global Crossing's employees, agents or representatives during the removal of such property shall be promptly repaired by Global Crossing at its expense.

5.11 Alterations. In no case shall Global Crossing or any person acting on behalf of Global Crossing make any rearrangement, modification, improvement, addition, repair, or other alteration which could affect in any way space, power, HVAC, and/or safety considerations to the Collocation Space or the BellSouth Premises without the written consent of BellSouth, which consent shall not be unreasonably withheld. The cost of any such specialized alterations shall be paid by Global Crossing. Any material rearrangement, modification, improvement, addition, repair, or other alteration shall require a Subsequent Application and Subsequent Application Fee, pursuant to sub-section 6.2.2

5.12 Janitorial Service. Global Crossing shall be responsible for the general upkeep and cleaning of the Caged Collocation Space and shall arrange directly with a BellSouth Certified Contractor for janitorial services. BellSouth shall provide a list of such contractors on a site-specific basis upon request.

6. Ordering and Preparation of Collocation Space

6.1 Should any state regulatory agency impose procedures or intervals different than procedures or intervals set forth in this section, whether now in effect or that become effective after execution of this Agreement, those procedures or intervals shall supersede the requirements set forth herein for all applications submitted for the first time after the effective date thereof.

6.2 Application for Space. Global Crossing shall submit an application document when Global Crossing or Global Crossing's Guest(s), as defined in Section 3.3, desires to request or modify the use of the Collocation Space.

6.2.1 Initial Application. For Global Crossing or Global Crossing's Guest(s) initial equipment placement, Global Crossing shall submit to BellSouth a Physical Expanded Interconnection Application Document ("Application"), together with payment of the Application Fee as stated in Exhibit A. The Application is Bona Fide when it is complete and accurate, meaning that all required fields on the application are completed with the appropriate type of information. The Bona Fide Application shall contain a detailed description and schematic drawing of the equipment to be placed in Global Crossing's Collocation Space(s) and an estimate of the amount of square footage required.

6.2.2 Subsequent Application Fee. In the event Global Crossing or Global Crossing's Guest(s) desire to modify the use of the Collocation Space, Global Crossing shall complete an Application document detailing all information regarding the modification to the Collocation Space together with payment of the minimum Subsequent Application Fee as stated in Exhibit A. Said minimum Subsequent Application Fee shall be considered a partial payment of the applicable Subsequent Application Fee which shall be calculated as set forth below. BellSouth shall determine what modifications, if any, to the Premises are required to accommodate the change requested by Global Crossing in the Application. Such necessary modifications to the Premises may include but are not limited to, floor loading changes, changes necessary to meet HVAC requirements, changes to power plant requirements, and equipment additions. The fee paid by Global Crossing for its request to modify the use of the Collocation Space shall be dependent upon the level of assessment needed for the modification requested. Where the subsequent Application does not require assessment for provisioning or construction work by BellSouth, no Subsequent Application Fee will be required and the pre-paid fee shall be refunded to Global Crossing. The fee for an Application where the modification requested has limited effect (e.g., does not require assessment related to capital

expenditure by BellSouth) shall be the Subsequent Application Fee as set forth in Exhibit-A. If the modification requires capital expenditure assessment, a fee ranging from the minimum Subsequent Application Fee up to the full Application Fee for the appropriate state shall apply. In the event such modifications require the assessment of a full Application Fee as set forth in Exhibit A, the outstanding balance shall be due by Global Crossing within 30 calendar days following Global Crossing's receipt of a bill or invoice from BellSouth.

6.3 Application Response. In addition to the notice of space availability pursuant to Section 2.1, BellSouth will respond within ten (10) business days of receipt of an Application stating whether the Application is Bona Fide, and if it is not Bona Fide, the items necessary to cause the Application to become Bona Fide. When space has been determined to be available, BellSouth will provide a comprehensive written response ("Application Response") within thirty (30) business days of receipt of a Bona Fide Application. The Application Response will include the configuration of the space, the Cable Installation Fee, and the estimated Space Preparation Fee, as described in Section 7. When multiple applications are submitted within a fifteen (15) business day window, BellSouth will respond to the Bona Fide Applications as soon as possible, but no later than the following: within thirty (30) business days for Bona Fide Applications 1-5; within thirty-six (36) business days for Bona Fide Applications 6-10; within forty-two (42) business days for Bona Fide Applications 11-15. Response intervals for multiple Bona Fide Applications submitted within the same timeframe for the same state in excess of 15 must be negotiated. All negotiations shall consider the total volume from all requests from telecommunications companies for collocation.

6.4 Application Modifications. If a modification or revision is made to any information in Sections 2 through 12 or 15 of a Bona Fide Application for Physical Collocation, or Sections 2 through 10 or 13 of a Bona Fide Application for Adjacent Collocation, either at the request of Global Crossing or necessitated by technical considerations, BellSouth will respond to the Bona Fide Application within thirty (30) business days after BellSouth receives such application or at such other date as the Parties agree. If, at any time, BellSouth needs to reevaluate Global Crossing's Bona Fide Application as a result of changes requested by Global Crossing to Global Crossing's original application, then BellSouth will charge Global Crossing a fee based upon the additional engineering hours required to do the reassessment. Major changes such as requesting additional space or adding additional equipment may require Global Crossing to resubmit the application with an Application Fee. Global Crossing may modify or revise Section 1, 13, 14, or 16 of a Bona Fide Application for Physical Collocation, or Sections 1, 11, or 12 of a Bona Fide Application for Adjacent Collocation, without incurring additional expense or a longer Application Response interval.

6.5 Bona Fide Firm Order. Global Crossing shall indicate its intent to proceed with equipment installation in a BellSouth Premises by submitting a Bona Fide Firm Order to BellSouth. A Bona Fide Firm Order requires Global Crossing to complete the

Application/Inquiry process described in Section 6.2, preceding, and submit the Physical Expanded Interconnection Firm Order document (BSTEI-1P-F) indicating acceptance of the Application Response provided by BellSouth ("Bona Fide Firm Order") and all appropriate fees, as set forth in Section 7. The Bona Fide Firm Order must be received by BellSouth no later than thirty (30) business days after BellSouth's Application Response to Global Crossing's Bona Fide Application.

6.5.1 BellSouth will establish a firm order date based upon the date BellSouth is in receipt of a Bona Fide Firm Order. BellSouth will acknowledge the receipt of Global Crossing's Bona Fide Firm Order within seven (7) calendar days of receipt indicating that the Bona Fide Firm Order has been received. A BellSouth response to a Bona Fide Firm Order will include a Firm Order Confirmation containing the firm order date. No revisions will be made to a Bona Fide Firm Order.

6.5.2 BellSouth will permit one accompanied site visit to Global Crossing's designated collocation arrangement location after receipt of the Bona Fide Firm Order without charge to Global Crossing.

6.5.3 Space preparation for the Collocation Space will not begin until BellSouth receives the Bona Fide Firm Order and all applicable fees.

6.5.4 Global Crossing must submit to BellSouth the completed Access Control Request Form (RF-2906-C) for all employees or agents requiring access to the BellSouth Premises a minimum of 30 calendar days prior to the date Global Crossing desires access to the Collocation Space.

6.6 Construction and Provisioning Interval. BellSouth will negotiate construction and provisioning intervals on an individual case basis. Excluding the time interval required to secure the appropriate government licenses and permits, BellSouth will use best efforts to complete construction for collocation arrangements under ordinary conditions as soon as possible and within a maximum of 120 calendar days from receipt of a Bona Fide Firm Order. Ordinary conditions are defined as space available with only minor changes to support systems required, such as but not limited to, HVAC, cabling and the power plant(s). Excluding the time interval required to secure the appropriate government licenses and permits, BellSouth will use best efforts to complete construction of all other Collocation Space ("extraordinary conditions") within 180 calendar days of the receipt of a Bona Fide Firm Order. Extraordinary conditions are defined to include but are not limited to major BellSouth equipment rearrangement or addition; power plant addition or upgrade; major mechanical addition or upgrade; major upgrade for ADA compliance; environmental hazard or hazardous materials abatement; and arrangements for which equipment shipping intervals are extraordinary in length.

6.6.1 Joint Planning Meeting. Unless otherwise agreed to by the Parties, a joint planning meeting or other method of joint planning between BellSouth and Global Crossing will commence within a maximum of twenty (20) calendar days from BellSouth's

receipt of a Bona Fide Firm Order and the payment of agreed upon fees. At such meeting, the Parties will agree to the preliminary design of the Collocation Space and the equipment configuration requirements as reflected in the Bona Fide Application and affirmed in the Bona Fide Firm Order. The Collocation Space completion time period will be provided to Global Crossing during the joint planning meeting or as soon as possible thereafter. BellSouth will complete all design work following the joint planning meeting.

6.6.2 Permits. Each Party or its agents will diligently pursue filing for the permits required for the scope of work to be performed by that Party or its agents within ten (10) calendar days of the completion of finalized construction designs and specifications.

6.6.3 Acceptance Walk Through. Global Crossing and BellSouth will complete an acceptance walk through of each Collocation Space requested from BellSouth by Global Crossing. BellSouth will correct any deviations to Global Crossing's original or jointly amended requirements within seven (7) calendar days after the walk through, unless the Parties jointly agree upon a different time frame.

6.7 Use of BellSouth Certified Supplier. Global Crossing shall select a supplier which has been approved as a BellSouth Certified Supplier to perform all engineering and installation work required in TR 73503 in the Collocation Space. In some cases, Global Crossing must select separate BellSouth Certified Suppliers for transmission equipment, switching equipment and power equipment. BellSouth shall provide Global Crossing with a list of BellSouth Certified Suppliers upon request. The BellSouth Certified Supplier(s) shall be responsible for installing Global Crossing's equipment and components, installing co-carrier cross connects, extending power cabling to the BellSouth power distribution frame, performing operational tests after installation is complete, and notifying BellSouth's equipment engineers and Global Crossing upon successful completion of installation. The BellSouth Certified Supplier shall bill Global Crossing directly for all work performed for Global Crossing pursuant to this Attachment and BellSouth shall have no liability for nor responsibility to pay such charges imposed by the BellSouth Certified Supplier. BellSouth shall consider certifying Global Crossing or any supplier proposed by Global Crossing.

6.8 Alarm and Monitoring. BellSouth shall place environmental alarms in the Premises for the protection of BellSouth equipment and facilities. Global Crossing shall be responsible for placement, monitoring and removal of environmental and equipment alarms used to service Global Crossing's Collocation Space. Upon request, BellSouth will provide Global Crossing with applicable tariffed service(s) to facilitate remote monitoring of collocated equipment by Global Crossing. Both Parties shall use best efforts to notify the other of any verified environmental hazard known to that Party. The Parties agree to utilize and adhere to the Environmental Hazard Guidelines identified as Exhibit B attached hereto.

6.9 Basic Telephone Service. Upon request of Global Crossing, BellSouth will provide basic telephone service to the Collocation Space under the rates, terms and conditions of the current tariff offering for the service requested.

6.10 Space Preparation. BellSouth shall pro rate the costs of any renovation or upgrade to Premises space or support mechanisms which is required to accommodate physical collocation, unless otherwise specified in Attachment A. Global Crossing's pro rated share will be calculated by multiplying such cost by a percentage equal to the amount of square footage occupied by Global Crossing divided by the total Premises square footage receiving renovation or upgrade. For this section, support mechanisms provided by BellSouth may include, but not be limited to, HVAC equipment, HVAC duct work, cable support structure, fire wall(s), mechanical upgrade, asbestos abatement, or ground plane addition. Such renovation or upgrade will be evaluated and the charges assessed on a per Premises basis. BellSouth will reimburse Global Crossing in an amount equal to Global Crossing's reasonable, demonstrative and mitigated expenditures incurred as a direct result of delays to the completion and turnover dates caused by BellSouth.

6.11 Virtual Collocation Transition. BellSouth offers Virtual Collocation pursuant to the rates, terms and conditions set forth in its F.C.C. Tariff No. 1. For the interconnection to BellSouth's network and access to BellSouth unbundled network elements, Global Crossing may purchase 2-wire and 4-wire cross-connects as set forth in Exhibit A, and Global Crossing may place within its Virtual Collocation arrangements the telecommunications equipment set forth in Section 5.1. In the event physical Collocation Space was previously denied at a location due to technical reasons or space limitations, and that physical Collocation Space has subsequently become available, Global Crossing may transition its virtual collocation arrangements to physical collocation arrangements and pay the appropriate non-recurring fees for physical collocation and for the rearrangement or reconfiguration of services terminated in the virtual collocation arrangement, as outlined in the appropriate BellSouth tariffs. In the event that BellSouth knows when additional space for physical collocation may become available at the location requested by Global Crossing, such information will be provided to Global Crossing in BellSouth's written denial of physical collocation. To the extent that (i) physical Collocation Space becomes available to Global Crossing within 180 calendar days of BellSouth's written denial of Global Crossing's request for physical collocation, and (ii) Global Crossing was not informed in the written denial that physical Collocation Space would become available within such 180 calendar days, then Global Crossing may transition its virtual collocation arrangement to a physical collocation arrangement and will receive a credit for any nonrecurring charges previously paid for such virtual collocation. Global Crossing must arrange with a BellSouth Certified Supplier for the relocation of equipment from its virtual Collocation Space to its physical Collocation Space and will bear the cost of such relocation.

6.12 Cancellation. If, at anytime, Global Crossing cancels its order for the Collocation Space(s), Global Crossing will reimburse BellSouth for any expenses incurred up to

the date that written notice of the cancellation is received. In no event will the level of reimbursement under this paragraph exceed the maximum amount Global Crossing would have otherwise paid for work undertaken by BellSouth if no cancellation of the order had occurred.

6.13 Licenses. Global Crossing, at its own expense, will be solely responsible for obtaining from governmental authorities, and any other appropriate agency, entity, or person, all rights, privileges, and licenses necessary or required to operate as a provider of telecommunications services to the public or to occupy the Collocation Space.

7. Rates and Charges

7.1 Non-recurring Fees. In addition to the Application Fee referenced in Section 6, preceding, Global Crossing shall remit payment of a Cable Installation Fee and one-half (1/2) of the estimated Space Preparation Fee, as applicable, coincident with submission of a Bona Fide Firm Order. The estimated Space Preparation Fee and the Cable Installation Fee shall be included in the Application Response. The outstanding balance of the actual Space Preparation Fee shall be due thirty (30) calendar days following Global Crossing's receipt of a bill or invoice from BellSouth. Once the installation of the initial equipment arrangement is complete, a subsequent application fee may apply (as described in Section.6.2.2) if Global Crossing requests a modification to the arrangement.

7.2 Documentation. Upon request following the receipt of a bill or invoice from BellSouth for the outstanding balance of the actual Space Preparation Fee, BellSouth shall provide documentation to establish the actual Space Preparation Fee. The Space Preparation Fee will be pro rated as prescribed in Section 6, preceding.

7.3 Space Preparation Fee in North Carolina. In North Carolina, the Space Preparation Fee is a monthly recurring charge, assessed per arrangement, per location, which is due beginning with the date on which BellSouth releases the Collocation Space for occupancy or on the date Global Crossing first occupies the Collocation Space, which include survey, engineering, design and modification costs for network, building and support systems. In the event Global Crossing opts for cageless space, the space preparation charge will be assessed based on the total floor space dedicated to Global Crossing as described in Section 7.5. The Space Preparation Fee always consists of charges for Firm Order Processing, Central Office Modifications, Power, and Common Systems Modifications. The charge for Common Systems Modification will be on a per square foot basis for cageless and on a per cage basis for caged collocation. The charge for Power will be assessed per the nominal –48V DC ampere requirements specified by Global Crossing on the Bona Fide Application.

7.4 Cable Installation. Cable Installation Fee(s) are assessed per entrance fiber placed.

7.5 Floor Space. The floor space charge includes reasonable charges for lighting, HVAC, and other allocated expenses associated with maintenance of the Premises but does not include amperage necessary to power Global Crossing's equipment. When the Collocation Space is enclosed, Global Crossing shall pay floor space charges based upon the number of square feet so enclosed. When the Collocation Space is not enclosed, Global Crossing shall pay floor space charges based upon the following floor space calculation: [(depth of the equipment lineup in which the rack is placed) + (0.5 x maintenance aisle depth) + (0.5 x wiring aisle depth)] X (width of rack and spacers). For purposes of this calculation, the depth of the equipment lineup shall consider the footprint of equipment racks plus any equipment overhang. BellSouth will assign unenclosed Collocation Space in conventional equipment rack lineups where feasible. In the event Global Crossing's collocated equipment requires special cable racking, isolated grounding or other treatment which prevents placement within conventional equipment rack lineups, Global Crossing shall be required to request an amount of floor space sufficient to accommodate the total equipment arrangement. Floor space charges are due beginning with the date on which BellSouth releases the Collocation Space for occupancy or on the date Global Crossing first occupies the Collocation Space, whichever is sooner.

7.6 Power. BellSouth shall make available –48 Volt (-48V) DC power for Global Crossing's Collocation Space at a BellSouth Power Board or BellSouth Batter Distribution Fuse Bay ("BDFB") at Global Crossing's option within the Premises.

7.6.1 Recurring charges for -48V DC power will be assessed per ampere per month based upon the BellSouth Certified Supplier engineered and installed power feed fused ampere capacity. Rates include redundant feeder fuse positions (A&B) and common cable rack to Global Crossing's equipment or space enclosure. When obtaining power from a BDFB, fuses and power cables (A&B) must be engineered (sized), and installed by Global Crossing's BellSouth Certified Supplier. When obtaining power from a BellSouth power board, power cables (A&B) must be engineered (sized), and installed by Global Crossing's BellSouth Certified power Supplier. Global Crossing's BellSouth Certified Supplier must also provide a copy of the engineering power specification prior to the Commencement Date.

7.6.2 The non-recurring construction charge for construction of additional DC power plant or upgrade of the existing DC power plant in a Premises as a result of Global Crossing's request to collocate in that Premises ("Power Plant Construction"), will be assessed per the nominal –48V DC ampere requirements specified by Global Crossing on the physical collocation application. BellSouth reserves the right to monitor actual usage to verify accuracy of Global Crossing's power requirements. Global Crossing shall pay its pro-rated share of costs associated with the Power Plant Construction, including but not limited to, standby AC plant elements, DC power plant elements, and the BDFB, where applicable. If Global Crossing does not require power feeders from a BDFB, the BDFB component will not be applied to the Power Plant Construction charge. If Global Crossing requires power feeders from both a BellSouth power board and a BellSouth BDFB, the Power Plant Construction charge

will include all three components for the amount of nominal current fed from the BDFB, but will only include the standby AC and DC power plant components for the amount of nominal current fed from the power board. BellSouth shall comply with all BellCore (Telcordia) and ANSI Standards regarding power cabling, including BellCore (Telcordia) Network Equipment Building System (NEBS) StandardGR-63-CORE. The costs of Power Plant Construction shall be pro-rated and shared among all who benefit from that construction. Global Crossing shall pay BellSouth one-half of its prorata share of the estimated Power Plant Construction costs prior to commencement of the work. Global Crossing shall pay BellSouth the balance due (actual cost less one-half of the estimated cost) within thirty (30) calendar days of completion of the Power Plant Construction.

7.6.3 If BellSouth has not previously invested in power plant capacity for collocation at a specific site, Global Crossing has the option to add its own dedicated power plant; provided, however, that such work shall be performed by a BellSouth Certified Supplier who shall comply with BellSouth's guidelines and specifications. Where the addition of Global Crossing's dedicated power plant results in construction of a new power plant room, upon termination of this Agreement, Global Crossing shall have the right to remove its equipment from the power plant room, but shall otherwise leave the room intact. Global Crossing is responsible for contracting with a BellSouth Certified Supplier for power distribution feeder cable runs from a BellSouth BDFB or power board to Global Crossing's equipment. When obtaining power from a BellSouth BDFB or miscellaneous fuse positions on a BellSouth power board, power cables must be engineered, furnished and installed by Global Crossing using a BellSouth Certified power Supplier. Determination of the BellSouth BDFB or BellSouth power board as the power source will be made at BellSouth's sole, but reasonable, discretion. The BellSouth Certified Supplier contracted by Global Crossing must provide BellSouth a copy of the engineering power specifications prior to the Commencement Date. BellSouth will provide the power feeder cable support structure between the BellSouth BDFB or power board and Global Crossing's arrangement area. Global Crossing shall contract a BellSouth Certified Supplier who will be responsible for the following: power cable support structure within Global Crossing's arrangement; power cable feeds; terminations of cable. Any terminations at a BellSouth power board must be performed by a BellSouth Certified power Supplier. Global Crossing shall comply with all applicable National Electric Code (NEC), BellSouth TR-73503, BellCore (Telcordia) and ANSI Standards regarding power cabling.

7.6.4 If Global Crossing elects to install its own DC Power Plant, BellSouth shall provide AC power to feed Global Crossing's DC Power Plant. Charges for AC power will be assessed per breaker ampere per month. Rates include the provision of commercial and standby AC power. When obtaining power from a BellSouth service panel, protection devices and power cables must be engineered (sized), and installed by Global Crossing's BellSouth Certified Supplier except that BellSouth shall engineer and install protection devices and power cables for Adjacent Collocation. Global Crossing's BellSouth Certified Supplier must also provide a copy of the engineering

power specification prior to the Commencement Date. Charges for AC power shall be assessed pursuant to the rates specified in Exhibit A. AC power voltage and phase ratings shall be determined on a per location basis. At Global Crossing's option, Global Crossing may arrange for AC power in an Adjacent Collocation arrangement from a retail provider of electrical power.

7.7 Security Escort. A security escort will be required whenever Global Crossing or its approved agent desires access to the entrance manhole or must have access to the Premises after the one accompanied site visit allowed pursuant to Section 6.4.2 prior to completing BellSouth's Security Training requirements and/or prior to Space Acceptance. Rates for a security escort are assessed in one-half (1/2) hour increments according to the schedule appended hereto as Exhibit A.

7.8 Rate "True-Up". The Parties agree that the prices reflected as interim herein shall be "trued-up" (up or down) based on final prices either determined by further agreement or by final order, including any appeals, in a proceeding involving BellSouth before the regulatory authority for the state in which the services are being performed or any other body having jurisdiction over this Agreement (hereinafter "Commission"). Under the "true-up" process, the interim price for each service shall be multiplied by the volume of that service purchased to arrive at the total interim amount paid for that service ("Total Interim Price"). The final price for that service shall be multiplied by the volume purchased to arrive at the total final amount due ("Total Final Price"). The Total Interim Price shall be compared with the Total Final Price. If the Total Final Price is more than the Total Interim Price, Global Crossing shall pay the difference to BellSouth. If the Total Final Price is less than the Total Interim Price, BellSouth shall pay the difference to Global Crossing. Each Party shall keep its own records upon which a "true-up" can be based and any final payment from one Party to the other shall be in an amount agreed upon by the Parties based on such records. In the event of any disagreement as between the records or the Parties regarding the amount of such "true-up," the Parties agree that the Commission shall be called upon to resolve such differences.

7.9 Other. If no rate is identified in the contract, the rate for the specific service or function will be negotiated by the Parties upon request by either Party. Payment of all other charges under this Attachment shall be due thirty (30) calendar days after receipt of the bill (payment due date). Global Crossing will pay a late payment charge of one and one-half percent (1-1/2%) assessed monthly on any balance which remains unpaid after the payment due date.

8. Insurance

8.1 Global Crossing shall, at its sole cost and expense, procure, maintain, and keep in force insurance as specified in this Section 8 and underwritten by insurance companies licensed to do business in the states applicable under this Attachment and having a Best's Insurance Rating of A-.

8.2 Global Crossing shall maintain the following specific coverage:

8.2.1 Commercial General Liability coverage in the amount of ten million dollars ($10,000,000.00) or a combination of Commercial General Liability and Excess/Umbrella coverage totaling not less than ten million dollars ($10,000,000.00). BellSouth shall be named as an Additional Insured on the Commercial General Liability policy as specified herein.

8.2.2 Statutory Workers Compensation coverage and Employers Liability coverage in the amount of one hundred thousand dollars ($100,000.00) each accident, one hundred thousand dollars ($100,000.00) each employee by disease, and five hundred thousand dollars ($500,000.00) policy limit by disease.

8.2.3 All Risk Property coverage on a full replacement cost basis insuring all of Global Crossing's real and personal property situated on or within BellSouth's Central Office location(s).

8.2.4 Global Crossing may elect to purchase business interruption and contingent business interruption insurance, having been advised that BellSouth assumes no liability for loss of profit or revenues should an interruption of service occur.

8.3 The limits set forth in Section 8.2 above may be increased by BellSouth from time to time during the term of this Attachment upon thirty (30) days notice to Global Crossing to at least such minimum limits as shall then be customary with respect to comparable occupancy of BellSouth structures.

8.4 All policies purchased by Global Crossing shall be deemed to be primary and not contributing to or in excess of any similar coverage purchased by BellSouth. All insurance must be in effect on or before the date equipment is delivered to BellSouth's Premises and shall remain in effect for the term of this Attachment or until all Global Crossing's property has been removed from BellSouth's Premises, whichever period is longer. If Global Crossing fails to maintain required coverage, BellSouth may pay the premiums thereon and seek reimbursement of same from Global Crossing.

8.5 Global Crossing shall submit certificates of insurance reflecting the coverage required pursuant to this Section a minimum of ten (10) business days prior to the commencement of any work in the Collocation Space. Failure to meet this interval may result in construction and equipment installation delays. Global Crossing shall arrange for BellSouth to receive thirty (30) business days' advance notice of cancellation from Global Crossing's insurance company. Global Crossing shall forward a certificate of insurance and notice of cancellation/non-renewal to BellSouth at the following address:

BellSouth Telecommunications, Inc.
Attn.: Risk Management Coordinator
675 W. Peachtree Street

Rm. 17H53
Atlanta, Georgia 30375

8.6 Global Crossing must conform to recommendations made by BellSouth's fire insurance company to the extent BellSouth has agreed to, or shall hereafter agree to, such recommendations.

8.7 Self-Insurance. If Global Crossing's net worth exceeds five hundred million dollars ($500,000,000), Global Crossing may elect to request self-insurance status in lieu of obtaining any of the insurance required in Sections 8.2.1 and 8.2.3. Global Crossing shall provide audited financial statements to BellSouth thirty (30) days prior to the commencement of any work in the Collocation Space. BellSouth shall then review such audited financial statements and respond in writing to Global Crossing in the event that self-insurance status is not granted to Global Crossing. If BellSouth approves Global Crossing for self-insurance, Global Crossing shall annually furnish to BellSouth, and keep current, evidence of such net worth that is attested to by one of Global Crossing's corporate officers. The ability to self-insure shall continue so long as the Global Crossing meets all of the requirements of this Section. If the Global Crossing subsequently no longer satisfies this Section, Global Crossing is required to purchase insurance as indicated by Sections 8.2.1 and 8.2.3.

8.8 The net worth requirements set forth in Section 8.7 may be increased by BellSouth from time to time during the term of this Attachment upon thirty (30) days' notice to Global Crossing to at least such minimum limits as shall then be customary with respect to comparable occupancy of BellSouth structures.

8.9 Failure to comply with the provisions of this Section will be deemed a material breach of this Attachment.

9. Mechanics Liens

9.1 If any mechanics lien or other liens shall be filed against property of either Party (BellSouth or Global Crossing), or any improvement thereon by reason of or arising out of any labor or materials furnished or alleged to have been furnished or to be furnished to or for the other Party or by reason of any changes, or additions to said property made at the request or under the direction of the other Party, the other Party directing or requesting those changes shall, within thirty (30) business days after receipt of written notice from the Party against whose property said lien has been filed, either pay such lien or cause the same to be bonded off the affected property in the manner provided by law. The Party causing said lien to be placed against the property of the other shall also defend, at its sole cost and expense, on behalf of the other, any action, suit or proceeding which may be brought for the enforcement of such liens and shall pay any damage and discharge any judgment entered thereon.

10. Inspections

10.1 BellSouth shall conduct an inspection of Global Crossing's equipment and facilities in the Collocation Space(s) prior to the activation of facilities between Global Crossing's equipment and equipment of BellSouth. BellSouth may conduct an inspection if Global Crossing adds equipment and may otherwise conduct routine inspections at reasonable intervals mutually agreed upon by the Parties. BellSouth shall provide Global Crossing with a minimum of forty-eight (48) hours or two (2) business days, whichever is greater, advance notice of all such inspections. All costs of such inspection shall be borne by BellSouth.

11. Security and Safety Requirements

11.1 The security and safety requirements set forth in this section are as stringent as the security requirements BellSouth maintains at its own premises either for their own employees or for authorized contractors. Only BellSouth employees, BellSouth Certified Contractors and authorized employees, authorized Guests, pursuant to Section 3.3, preceding, or authorized agents of Global Crossing will be permitted in the BellSouth Premises. Global Crossing shall provide its employees and agents with picture identification which must be worn and visible at all times while in the Collocation Space or other areas in or around the Premises. The photo Identification card shall bear, at a minimum, the employee's name and photo, and the Global Crossing name. BellSouth reserves the right to remove from its premises any employee of Global Crossing not possessing identification issued by Global Crossing or who have violated any of BellSouth's policies as outlined in the CLEC Security Training documents. Global Crossing shall hold BellSouth harmless for any damages resulting from such removal of its personnel from BellSouth premises. Global Crossing shall be solely responsible for ensuring that any Guest of Global Crossing is in compliance with all subsections of this Section 11.

11.1.1 Global Crossing will be required, at its own expense, to conduct a statewide investigation of criminal history records for each Global Crossing employee being considered for work on the BellSouth Premises, for the states/counties where the Global Crossing employee has worked and lived for the past five years. Where state law does not permit statewide collection or reporting, an investigation of the applicable counties is acceptable.

11.1.2 Global Crossing will be required to administer to their personnel assigned to the BellSouth Premises security training either provided by BellSouth, or meeting criteria defined by BellSouth.

11.1.3 Global Crossing shall not assign to the BellSouth Premises any personnel with records of felony criminal convictions. Global Crossing shall not assign to the BellSouth Premises any personnel with records of misdemeanor convictions, except for misdemeanor traffic violations, without advising BellSouth of the nature and

gravity of the offense(s). BellSouth reserves the right to refuse building access to any Global Crossing personnel who have been identified to have misdemeanor criminal convictions. Notwithstanding the foregoing, in the even that Global Crossing chooses not to advise BellSouth of the nature and gravity of any misdemeanor conviction, Global Crossing may, in the alternative, certify to BellSouth that it shall not assign to the BellSouth Premises any personnel with records of misdemeanor convictions (other than misdemeanor traffic violations).

11.1.4 For each Global Crossing employee requiring access to a BellSouth Premises pursuant to this Attachment, Global Crossing shall furnish BellSouth, prior to an employee gaining such access, a certification that the aforementioned background check and security training were completed. The certification will contain a statement that no felony convictions were found and certifying that the security training was completed by the employee. If the employee's criminal history includes misdemeanor convictions, Global Crossing will disclose the nature of the convictions to BellSouth at that time. In the alternative, Global Crossing may certify to BellSouth that it shall not assign to the BellSouth Premises any personnel with records of misdemeanor convictions other than misdemeanor traffic violations.

11.1.5 At BellSouth's request, Global Crossing shall promptly remove from the BellSouth's Premises any employee of Global Crossing BellSouth does not wish to grant access to its premises 1) pursuant to any investigation conducted by BellSouth or 2) prior to the initiation of an investigation in the event that an employee of Global Crossing is found interfering with the property or personnel of BellSouth or another CLEC, provided that an investigation shall promptly be commenced by BellSouth.

11.2 Notification to BellSouth. BST reserves the right to interview Global Crossing's employees, agents, or contractors in the event of wrongdoing in or around BellSouth's property or involving BellSouth's or another CLEC's property or personnel, provided that BellSouth shall provide reasonable notice to Global Crossing's Security contact of such interview. Global Crossing and its contractors shall reasonably cooperate with BellSouth's investigation into allegations of wrongdoing or criminal conduct committed by, witnessed by, or involving Global Crossing's employees, agents, or contractors. Additionally, BellSouth reserves the right to bill Global Crossing for all reasonable costs associated with investigations involving its employees, agents, or contractors if it is established and mutually agreed in good faith that Global Crossing's employees, agents, or contractors are responsible for the alleged act. BellSouth shall bill Global Crossing for BellSouth property which is stolen or damaged where an investigation determines the culpability of Global Crossing's employees, agents, or contractors and where Global Crossing agrees, in good faith, with the results of such investigation. Global Crossing shall notify BellSouth in writing immediately in the event that the CLEC discovers one of its employees already working on the BellSouth premises is a possible security risk. Upon request of the other Party, the Party who is the employer shall discipline consistent with its employment practices, up to and including removal from the BellSouth Premises, any employee found to have violated the security and safety requirements of this section.

Global Crossing shall hold BellSouth harmless for any damages resulting from such removal of its personnel from BellSouth premises.

11.3 Use of Supplies. Unauthorized use of telecommunications equipment or supplies either Party, whether or not used routinely to provide telephone service (e.g. plug-in cards,) will be strictly prohibited and handled appropriately. Costs associated with such unauthorized use may be charged to the offending Party, as may be all associated investigative costs.

11.4 Use of Official Lines. Except for non-toll calls necessary in the performance of their work, neither Party shall use the telephones of the other Party on the BellSouth Premises. Charges for unauthorized telephone calls may be charged to the offending Party, as may be all associated investigative costs.

11.5 Accountability. Full compliance with the Security requirements of this section shall in no way limit the accountability of either Party to the other for the improper actions of its employees.

12. Destruction of Collocation Space

12.1 In the event a Collocation Space is wholly or partially damaged by fire, windstorm, tornado, flood or by similar causes to such an extent as to be rendered wholly unsuitable for Global Crossing's permitted use hereunder, then either Party may elect within ten (10) business days after such damage, to terminate this Attachment, and if either Party shall so elect, by giving the other written notice of termination, both Parties shall stand released of and from further liability under the terms hereof. If the Collocation Space shall suffer only minor damage and shall not be rendered wholly unsuitable for Global Crossing's permitted use, or is damaged and the option to terminate is not exercised by either Party, BellSouth covenants and agrees to proceed promptly without expense to Global Crossing, except for improvements not the property of BellSouth, to repair the damage. BellSouth shall have a reasonable time within which to rebuild or make any repairs, and such rebuilding and repairing shall be subject to delays caused by storms, shortages of labor and materials, government regulations, strikes, walkouts, and causes beyond the control of BellSouth, which causes shall not be construed as limiting factors, but as exemplary only. Global Crossing may, at its own expense, accelerate the rebuild of its collocated space and equipment provided however that a BellSouth Certified Contractor is used and the necessary space preparation has been completed. Rebuild of equipment must be performed by a BellSouth Certified Vendor. If Global Crossing's acceleration of the project increases the cost of the project, then those additional charges will be incurred by Global Crossing. Where allowed and where practical, Global Crossing may erect a temporary facility while BellSouth rebuilds or makes repairs. In all cases where the Collocation Space shall be rebuilt or repaired, Global Crossing shall be entitled to an equitable abatement of rent and other charges, depending upon the unsuitability of the Collocation Space for Global Crossing's permitted use, until such Collocation Space

is fully repaired and restored and Global Crossing's equipment installed therein (but in no event later than thirty (30) business days after the Collocation Space is fully repaired and restored). Where Global Crossing has placed an Adjacent Arrangement pursuant to section 3.4, Global Crossing shall have the sole responsibility to repair or replace said Adjacent Arrangement provided herein. Pursuant to this section, BellSouth will restore the associated services to the Adjacent Arrangement.

13. Eminent Domain

13.1 If the whole of a Collocation Space or Adjacent Arrangement shall be taken by any public authority under the power of eminent domain, then this Attachment shall terminate with respect to such Collocation Space or Adjacent Arrangement as of the day possession shall be taken by such public authority and rent and other charges for the Collocation Space or Adjacent Arrangement shall be paid up to that day with proportionate refund by BellSouth of such rent and charges as may have been paid in advance for a period subsequent to the date of the taking. If any part of the Collocation Space or Adjacent Arrangement shall be taken under eminent domain, BellSouth and Global Crossing shall each have the right to terminate this Attachment with respect to such Collocation Space or Adjacent Arrangement and declare the same null and void, by written notice of such intention to the other Party within ten (10) business days after such taking.

14. Nonexclusivity

14.1 Global Crossing understands that this Attachment is not exclusive and that BellSouth may enter into similar agreements with other Parties. Assignment of space pursuant to all such agreements shall be determined by space availability and made on a first come, first served basis.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – ALABAMA PHYSICAL COLLOCATION

Rates marked with an asterisk (*) are interim and are subject to true-up

USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
PE1BA	Application Fee	Per request	NA	$7,124.00 Disconnect Charge $1.73
PE1CA	Subsequent Application Fee (Note 1)	Per request	NA	$1,600.00 Minimum
PE1BB	Space Preparation Fee (Note 2)			
	Mechanical / HVAC*	Per ton (one ton minimum)		$2,400.00
PE1SB	Ground Bar*	Per connection		$720.00
PE1SC	Project Management*	Per arrangement		$1,675.00
PE1SD	Cable Racking / Fiber Duct	Per arrangement, sq. ft.		ICB
PE1SE	Frame / Aisle Lighting	Per arrangement, sq. ft.		ICB
PE1SG	Framework Ground Conductors	Per arrangement		ICB
PE1SH	Extraordinary Modifications	Per arrangement		ICB
	Space Enclosure (Note 3)			
PE1BW	Welded Wire-mesh	Per first 100 sq. ft.	$136.64	NA
PE1CW	Welded Wire-mesh	Per add'l 50 sq. ft.	$15.85	NA
PE1PJ	Floor Space	Per sq. ft.	$3.85	NA
PE1BD	Cable Installation	Per cable	NA	$2,335.00
PE1PM	Cable Support Structure	Per entrance cable	$23.23	NA
	Power			
PE1PL	-48V DC Power	Per amp	$7.14	ICB
PE1FB	120V AC Power single phase*	Per breaker amp	$5.50	ICB
PE1FD	240V AC Power single phase*	Per breaker amp	$11.00	ICB
PE1FE	120V AC Power three phase*	Per breaker amp	$16.50	ICB
PE1FG	277 AC Power three phase*	Per breaker amp	$38.20	ICB
	Cross Connects (Note 4)	Per cross connect		First/Add'l
PE1P2	2-wire		$.28	$30.76/$29.40
PE1P4	4-wire		$.56	$31.01/$29.58
PE1P1	DS-1		$2.14	$60.81/$41.71
PE1P3	DS-3		$38.63	$57.80/$39.81

ALABAMA (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
	Cross Connects (continued)	Per cross connect		First Add'l
PE1F2	2-fiber		$12.10	$55.46/$39.18
PE1F4	4-fiber		$21.75	$66.71 $50.43
				Disconnect Charges
				First Add'l
	2-wire			$12.75 $11.38
	4-wire			$12.82 $11.39
	DS-1			$12.85 $11.50
	DS-3			$14.93/$11.76
	2-fiber			$16.83/$13.27
	4-fiber			$21.86/$18.31
	Co-Carrier Cross-Connect **(Note 5)**			
PE1ES Fiber	Fiber Cable Support Structure, existing	Per linear ft.	$0.06	NA
PE1DS Copper	Copper or Coaxial Cable Support Structure, existing	Per linear ft.	$0.03	NA
(TBD)	Cable Support Structure Construction, new	Per new construction	NA	ICB
PE1AX	Security Access System Security System*	Per central office	$52.00	
	New Access Card Activation*	Per card		$55.00
PE1AA	Administrative change, existing card*	Per card		$35.00
PE1AR	Replace lost or stolen card*	Per card		$250.00
PE1SR	Space Availability Report*	Per premises requested		$550.00
	POT Bay Arrangements *Prior to 6/1/99*	Per cross connect		
PE1PE	2-Wire Cross-Connect		$0.08	NA
PE1PF	4-Wire Cross-Connect		$0.17	NA
PE1PG	DS1 Cross-Connect		$0.69	NA
PE1PH	DS3 Cross-Connect		$4.74	NA
PE1B2	2-Fiber Cross-Connect		$32.02	NA
PE1B4	4-Fiber Cross-Connect		$40.48	NA

ALABAMA (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
AEH	Additional Engineering Fee (Note 6)	Per request. First half hour/add'l half hour		First Add'l Basic Time $31.00/$22.00 Overtime $37.00 $26.00
	Security Escort	Per half hr/add'l half hr		
PE1BT	Basic Time		NA	$43.47 $25.82
PE1OT	Overtime		NA	$55.25 $32.79
PE1PT	Premium Time		NA	$67.03/$39.76

Note(s):

N/A refers to rate elements which do not have a negotiated rate.

(1) **Subsequent Application Fee:** BellSouth requires the submission of an Application Fee for modifications to an existing arrangement. However, when the modifications do not require BellSouth assessment related to expenditure of capital, BellSouth will assess the Subsequent Application Fee in lieu of the Application Fee. Proposed modifications that could result in assessment of a Subsequent Application Fee would cause BellSouth to analyze the following but are not limited to: floor loading changes, changes to HVAC requirements, power requirement changes which may result in a power plant upgrade, environmental or safety requirements, or equipment relocation. Should the Subsequent Application Fee not be included as part of this Attachment, Global Crossing will be assessed the full Application Fee for all subsequent activity for completed arrangements.

(2) **Space Preparation Fee**: The Space Preparation Fee is a one-time fee, assessed per arrangement, per location. It recovers the costs associated with the shared physical collocation area within a Premises, which include survey, engineering, design and modification costs for network, building and support systems. In the event Global Crossing opts for non-enclosed space, the space preparation fee will be assessed based on the total floor space dedicated to Global Crossing as prescribed in Section 7 of the Collocation Attachment.

(3) **Space Enclosure**: The Space Enclosure Construction Fee is a monthly recurring fee, assessed per enclosure, per location with a one-hundred (100) square foot minimum enclosure. It recovers costs associated with providing an optional equipment arrangement enclosure, which include architectural and engineering fees, materials, and installation costs. The cost for additional square feet is applicable only when ordered with the first 100 square feet and must be requested in fifty (50) square foot increments. Global Crossing may, at its option, arrange with a BellSouth Certified Contractor to construct the space enclosure in accordance with BellSouth's guidelines and specifications. In this event, the BellSouth Certified Contractor shall directly bill Global Crossing for the space enclosure, and this fee shall not be applicable.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – ALABAMA PHYSICAL COLLOCATION (continued)

(4) **Cross Connects**: The charges for cross connects are for orders placed electronically. Cross connect elements may also be ordered manually for which there is an additional charge per element.

		Disconnect Charges
	First / Additional	First / Additional
2-wire	$34.03 / $32.67	$14.48 / $13.11
4-wire	$34.28 / $32.85	$14.55 / $13.12
DS-1	$64.08 / $44.98	$14.58 / $13.23
DS-3	$61.07 / $43.08	$16.66 / $13.49

(5) **Co-Carrier Cross-Connect:** As stated in Section 1.2 of the Collocation Attachment, Global Crossing may connect to other CLECs within the designated Premises in addition to, and not in lieu of, interconnection to BellSouth services and facilities. Where BellSouth must construct a cable rack structure to house the co-Carrier cross connection, construction charges will be applied on an individual case basis as described in Section 5.6.1 of the Collocation Attachment. BellSouth shall provide an estimate of these charges in the Application Response. Where an existing cable rack structure is in place and has sufficient capacity to accommodate the co-Carrier cross connection requested, the recurring charges as stated in this Exhibit A shall apply.

(6) **Additional Engineering Fee**: BellSouth's additional engineering, and other labor costs associated with handling Global Crossing-requested modifications to requests in progress or augmentations to existing arrangements shall be recovered as Additional Engineering charges, under provisions in BellSouth's F.C.C. Number 1 Tariff, Sections 13.1 and 13.2. Should Additional Engineering rates not be included, Global Crossing agrees not to make changes to collocation arrangement after a Bona Fide Firm Order is submitted.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – FLORIDA
PHYSICAL COLLOCATION

Rates marked with an asterisk (*) are interim and are subject to true-up

USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
PE1BA	Application Fee	Per request	$15.53	$3,248.00
PE1CA	Subsequent Application Fee (Note 1)	Per request	NA	$1,600.00 Minimum
PE1BB	Space Preparation Fee (Note 2)			
	Mechanical / HVAC*	Per ton (one ton minimum)		$2,400.00
PE1SB	Ground Bar*	Per connection		$720.00
PE1SC	Project Management*	Per arrangement		$1,675.00
PE1SD	Cable Racking / Fiber Duct	Per arrangement, sq. ft.		ICB
PE1SE	Frame / Aisle Lighting	Per arrangement, sq. ft.		ICB
PE1S	Framework Ground Conductors	Per arrangement		ICB
PE1SH	Extraordinary Modifications	Per arrangement		ICB
	Space Enclosure (Note 3)			
PE1BW	Wire Cage	Per first 100 sq. ft.	$41.99	NA
PE1BC	Gypsum Board Cage	Per first 100 sq. ft	$84.10	NA
PE1BF	Fire Rated Cage	Per first 100 sq. ft.	$99.73	NA
PE1CW	Wire Cage	Per add'l 50 sq. ft.	$4.14	NA
PE1CC	Gypsum Board Cage	Per add'l 50 sq. ft.	$9.35	NA
PE1CF	Fire Rated Cage	Per add'l 50 sq. ft.	$11.30	NA
PE1PJ	Floor Space	Per sq. ft.	$4.25	NA
PE1BD	Cable Installation	Per cable	$2.77	$1,056.00
PE1PM	Cable Support Structure		$22.94	NA
	Power			
PE1PL	-48V DC Power	Per amp	$6.95	ICB
PE1FB	120V AC Power single phase*	Per breaker amp	$5.50	ICB
PE1FD	240V AC Power single phase*	Per breaker amp	$11.00	ICB
PE1FE	120V AC Power three phase*	Per breaker amp	$16.50	ICB
PE1FG	277 AC Power three phase*	Per breaker amp	$38.20	ICB
	Cross Connects (Note 4)	Per cross connect		
PE1P2	2-wire		$.0524	$11.57
PE1P4	4-wire		$.0524	$11.57

FLORIDA (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
	Cross Connects (continued)	Per cross connect		
PE11S	DS-1/DCS		$8.085	$69.64
PE1P1	DS-1/DSX		$.4110	$69.64
PE13S	DS-3/DCS		$56.97	$528.00
PE13X	DS-3/DSX		$10.06	$528.00
PE1F2	Optical Cross Connects		$6.46	$2,431.00
	Co-Carrier Cross-Connect (**Note 5**)			
PE1ES Fiber	Fiber Cable Support Structure, existing	Per linear ft.	$0.06	NA
PE1DS Copper	Copper or Coaxial Cable Support Structure, existing	Per linear ft.	$0.03	NA
(TBD)	Cable Support Structure Construction, new	Per new construction	NA	ICB
PE1AX	Security Access System Security System*	Per premises	$52.00	
	New Access Card Activation*	Per request 5 cards	NA	$85.12
PE1AA	Administrative change, existing card*	Per card		$35.00
PE1AR	Replace lost or stolen card*	Per card		$250.00
PE1SR	Space Availability Report*	Per premises requested		$550.00
	POT Bay (**Note 6**)		NA	NA
AEH	Additional Engineering Fee (**Note 7**)	Per request, First half hour/add'l half hour		First/Add'l Basic Time $31.00/$22.00 Overtime $37.00/$26.00
	Security Escort	Per ¼ hour		
PE1BT	Basic Time		NA	$10.89
PE1OT	Overtime		NA	$13.64
PE1PT	Premium Time		NA	$16.40

EXHIBIT A: BELLSOUTH/Global Crossing RATES – FLORIDA PHYSICAL COLLOCATION (continued)

Note(s):

N/A refers to rate elements which do not have a negotiated rate.

(1) **Subsequent Application Fee**: BellSouth requires the submission of an Application Fee for modifications to an existing arrangement. However, when the modifications do not require BellSouth to expend capital, BellSouth will assess the Subsequent Application Fee in lieu of the Application Fee. Proposed modifications that could result in assessment of a Subsequent Application Fee would cause BellSouth to analyze the following but are not limited to: floor loading changes, changes to HVAC requirements, power requirement changes which may result in a power plant upgrade, environmental or safety requirements, or equipment relocation. Should the Subsequent Application Fee not be included as part of this Attachment, Global Crossing will be assessed the full Application Fee for all subsequent activity for completed arrangements.

(2) **Space Preparation Fee**: The Space Preparation Fee is a one-time fee, assessed per arrangement, per location. It recovers costs associated with the shared physical collocation area within a Premises, which include survey, engineering, design and modification costs for network, building and support systems. BellSouth will pro rate the total shared space preparation costs among the collocators at each location based on the amount of square footage occupied by each collocator. This charge may vary depending on the location and type of arrangement requested.

(3) **Space Enclosure Fee**: The Space Enclosure Construction Fee is a monthly recurring fee, assessed per enclosure, per location with a one-hundred (100) square foot minimum enclosure. It recovers costs associated with providing an optional equipment arrangement enclosure, which include architectural and engineering fees, materials, and installation costs. The cost for additional square feet is applicable only when ordered with the first 100 square feet and must be requested in fifty (50) square foot increments. Global Crossing may, at its option, arrange with a BellSouth Certified Contractor to construct the space enclosure in accordance with BellSouth's guidelines and specifications. In this event, the BellSouth Certified Contractor shall directly bill Global Crossing for the space enclosure, and this fee shall not be applicable.

(4) **Cross Connects**: Rates shown are the equivalent per cross connect rates based on the Florida PSC Ordered rates as follows:

Cross Connects	Per Cross Connect	RC	NRC
2-wire	Per 100 X-Connects	$5.24	$1,157.00
4-wire	Per 100 X-Connects	$5.24	$1,157.00
DS-1/DCS	Per 28 X-Connects	$226.39	$1,950.00
DS-1/DSX	Per 28 X-Connects	$11.51	$1,950.00
DS-3/DCS	Per Cross Connect	$56.97	$ 528.00
DS-3/DSX	Per Cross Connect	$10.06	$528.00
Optical Cross Connects	Per Cross Connect	$6.46	$2,431.00

EXHIBIT A: BELLSOUTH/Global Crossing RATES – FLORIDA PHYSICAL COLLOCATION (continued)

(5) **Co-Carrier Cross-Connect**. As stated in Section 5 of the Collocation Attachment, Global Crossing may connect to other CLECs within the designated Premises in addition to, and not in lieu of, interconnection to BellSouth services and facilities. Where BellSouth must construct a cable rack structure to house the direct connection, construction charges will be applied on an individual case basis as described in Section 5.6.1 of the Collocation Attachment. BellSouth shall provide an estimate of these charges in the Application Response. Where an existing cable rack structure is in place and has sufficient capacity to accommodate the direct connection requested, the recurring charges as stated in this Exhibit A shall apply.

(6) **POT Bays**: BellSouth's Florida specific rates were established in the Florida Public Service Commission Docket No. 960833. The Commission did not set permanent rates for POT Bays, given the assumption by the Parties to the Proceeding that they will always provide their own POT Bays. It will be necessary for Global Crossing to provide its own POT Bays per BellSouth specifications and provide the necessary information from which BellSouth can inventory.

(7) **Additional Engineering Fee**: BellSouth's additional engineering, and other labor costs associated with handling Global Crossing-requested modifications to requests in progress or augmentations to existing arrangements shall be recovered as Additional Engineering charges, under provisions in BellSouth's F.C.C. Number 1 Tariff, Sections 13.1 and 13.2. Should Additional Engineering rates not be included, Global Crossing agrees not to make changes to collocation arrangement after a Bona Fide Firm Order is submitted.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – GEORGIA PHYSICAL COLLOCATION

Rates marked with an asterisk (*) are interim and subject to true-up

USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
PE1BA	Application Fee	Per request	NA	$3,850.00
PE1CA	Subsequent Application Fee (Note 1)	Per request	NA	$1,600.00 Minimum
PE1BB	Space Preparation Fee (Note 2)	Per sq. ft.	NA	$100.00
	Space Enclosure (Note 3)			
PE1BW	Welded Wire-mesh	Per first 100 sq. ft.	$170.64	NA
PE1CW	Welded Wire-mesh	Per add'l 50 sq. ft.	$17.33	NA
	Floor Space			
PE1PJ	Zone A	Per sq. ft.	$7.50	NA
PE1PK	Zone B	Per sq. ft.	$6.75	NA
PE1BD	Cable Installation	Per cable	NA	$2,750.00
PE1PM	Cable Support Structure	Per entrance cable	$13.35	NA
	Power			
PE1PL	-48V DC Power	Per amp	$5.00	ICB
PE1FB	120V AC Power single phase*	Per breaker amp	$5.50	ICB
PE1FD	240V AC Power single phase*	Per breaker amp	$11.00	ICB
PE1FE	120V AC Power three phase*	Per breaker amp	$16.50	ICB
PE1FG	277 AC Power three phase*	Per breaker amp	$38.20	ICB
	Cross Connects	Per cross connect		First/Add'l
PE1P2	2-wire		$0.30	$12.60/$12.60
PE1P4	4-wire		$0.50	$12.60/$12.60
PE1P1	DS-1		$8.00	$155.00/$27.00
PE1P3	DS-3		$72.00	$155.00/$27.00
PE1F2	2-fiber		$15.64	$41.56/$29.82
PE1F4	4-fiber		$28.11	$50.53/$38.78
	Co-Carrier Cross-Connect (Note 4)			
PE1ES Fiber	Fiber Cable Support Structure, existing	Per linear ft.	$0.06	NA
PE1DS Copper	Copper or Coaxial Cable Support Structure, existing	Per linear ft.	$0.03	NA
(TBD)	Cable Support Structure Construction, new	Per new construction	NA	ICB

GEORGIA (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
PE1AX	Security Access System Security System*	Per premises	$52.00	
	New Access Card Activation*	Per card		$55.00
PE1AA	Administrative change, existing card*	Per card		$35.00
PE1AR	Replace lost or stolen card*	Per card		$250.00
PE1SR	Space Availability Report*	Per premises requested		$550.00
	POT Bay Arrangements *Prior to 6/1/99*	Per cross-connect		
PE1PE	2-Wire Cross-Connect		$0.40	NA
PE1PF	4-Wire Cross-Connect		$1.20	NA
PE1PG	DS1 Cross-Connect		$1.20	NA
PE1PH	DS3 Cross-Connect		$8.00	NA
PE1B2	2 Fiber Cross-Connect		$38.79	NA
PE1B4	4 Fiber Cross-Connect		$52.31	NA
AEH	Additional Engineering Fee (**Note 5**)	Per request, First half hour/add'l half hour		First/Add'l Basic Time $31.00/$22.00 Overtime $37.00/$26.00
	Security Escort	Per half hr./Add'l half hr.		
PE1BT	Basic Time		NA	$41.00/$25.00
PE1OT	Overtime		NA	$48.00/$30.00
PE1PT	Premium Time		NA	$55.00/$35.00

Note(s)

N/A refers to rate elements which do not have a negotiated rate.

(1) **Subsequent Application Fee**: BellSouth requires the submission of an Application Fee for modifications to an existing arrangement. However, when the modifications do not require BellSouth to expend capital, BellSouth will assess the Subsequent Application Fee in lieu of the Application Fee. Proposed modifications that could result in assessment of a Subsequent Application Fee would cause BellSouth to analyze the following but are not limited to: floor loading changes, changes to HVAC requirements, power requirement changes which may result in a power plant upgrade, environmental or safety requirements, or equipment relocation. Should the Subsequent Application Fee not be included as part of this Attachment, Global Crossing will be assessed the full Application Fee for all subsequent activity for completed arrangements.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – GEORGIA PHYSICAL COLLOCATION (continued)

(2) **Space Preparation Fee**: The Space Preparation Fee is a one-time fee, assessed per arrangement, per location. It recovers a portion of costs associated with the shared physical collocation area within a Premises, which include survey, engineering, design and modification costs for network, building and support systems. This is a set fee of $100 per square foot as established by the Georgia Public Service Commission Order in Docket No. 7061-U. In the event Global Crossing opts for non-enclosed space, the space preparation fee will be assessed based on the total floor space dedicated to Global Crossing as prescribed in Section 7 of the Collocation Attachment.

(3) **Space Enclosure Fee**: The Space Enclosure Construction Fee is a one-time fee, assessed per enclosure, per location with a one-hundred (100) square foot minimum enclosure. It recovers costs associated with providing an optional equipment arrangement enclosure, which include architectural and engineering fees, materials, and installation costs. The cost for additional square feet is applicable only when ordered with the first 100 square feet and must be requested in fifty (50) square foot increments. Global Crossing may, at its option, arrange with a BellSouth Certified Contractor to construct the space enclosure in accordance with BellSouth's guidelines and specifications. In this event, the BellSouth Certified Contractor shall directly bill Global Crossing for the space enclosure, and this fee shall not be applicable.

(4) **Co-Carrier Cross-Connect**. As stated in Section 5 of the Collocation Attachment, Global Crossing may connect to other CLECs within the designated Premises in addition to, and not in lieu of, interconnection to BellSouth services and facilities. Where BellSouth must construct a cable rack structure to house the co-Carrier cross connection, construction charges will be applied on an individual case basis as described in Section 5.6.1 of the Collocation Attachment. BellSouth shall provide an estimate of these charges in the Application Response. Where an existing cable rack structure is in place and has sufficient capacity to accommodate the co-Carrier cross-connection requested, the recurring charges as stated in this Exhibit A shall apply.

(5) **Additional Engineering Fee**: BellSouth's additional engineering, and other labor costs associated with handling Global Crossing-requested modifications to requests in progress or augmentations to existing arrangements shall be recovered as Additional Engineering charges, under provisions in BellSouth's F.C.C. Number 1 Tariff, Sections 13.1 and 13.2. Should Additional Engineering rates not be included, Global Crossing agrees not to make changes to collocation arrangement after a Bona Fide Firm Order is submitted.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – KENTUCKY
PHYSICAL COLLOCATION

Rates marked with an asterisk (*) are interim and are subject to true-up.

USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
PE1BA	Application Fee	Per request	NA	$9.926.72
PE1CA	Subsequent Application Fee (Note 1)	Per request	NA	$1.600.00 Minimum
PE1BB	Space Preparation Fee (Note 2)			
	Mechanical / HVAC*	Per ton (one ton minimum)		$2.400.00
PE1SB	Ground Bar*	Per connection		$720.00
PE1SC	Project Management*	Per arrangement		$1.675.00
PE1SD	Cable Racking / Fiber Duct	Per arrangement, sq. ft.		ICB
PE1SE	Frame / Aisle Lighting	Per arrangement, sq. ft.		ICB
PE1S	Framework Ground Conductors	Per arrangement		ICB
PE1SH	Extraordinary Modifications	Per arrangement		ICB
	Space Enclosure (Note 3)			
PE1BW	Welded Wire-mesh	Per first 100 sq. ft.	$201.02	NA
PE1CW	Welded Wire-mesh	Per add'l 50 sq. ft.	$20.42	NA
PE1PJ	Floor Space	Per sq. ft.	$5.00	NA
PE1BD	Cable Installation	Per cable	NA	$2,327.08
PE1PM	Cable Support Structure	Per entrance cable	$24.23	NA
	Power			
PE1PL	-48V DC Power	Per amp	$7.68	ICB
PE1FB	120V AC Power single phase*	Per breaker amp	$5.50	ICB
PE1FD	240V AC Power single phase*	Per breaker amp	$11.00	ICB
PE1FE	120V AC Power three phase*	Per breaker amp	$16.50	ICB
PE1FG	277 AC Power three phase*	Per breaker amp	$38.20	ICB
	Cross Connects	Per cross connect		First/Add'l
PE1P2	2-wire		$0.31	$54.21/$51.07
PE1P4	4-wire		$0.62	$54.23/$50.96
PE1P1	DS-1		$1.92	$99.23/$69.15
PE1P3	DS-3		$39.94	$97.48/$66.90
PE1F2	2-fiber		$15.64	$41.56/$29.82
PE1F4	4-fiber		$28.11	$50.53/$38.78

KENTUCKY (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
	Co-Carrier Cross-Connect (Note 4)			
PE1ES Fiber	Fiber Cable Support Structure, existing	Per linear ft.	$0.06	NA
PE1DS Copper	Copper or Coaxial Cable Support Structure, existing	Per linear ft.	$0.03	NA
(TBD)	Cable Support Structure Construction, new	Per new construction	NA	ICB
PE1AX	Security Access System Security System*	Per premises	$52.00	
	New Access Card Activation	Per card		$55.00
PE1AA	Administrative change, existing card	Per card		$35.00
PE1AR	Replace lost or stolen card	Per card		$250.00
PE1SR	Space Availability Report	Per premises requested		$550.00
	POT Bay Arrangements *Prior to 6/1/99*	Per cross-connect		
PE1PE	2-Wire Cross-Connect		$0.06	NA
PE1PF	4-Wire Cross-Connect		$0.15	NA
PE1PG	DS1 Cross-Connect		$0.58	NA
PE1PH	DS3 Cross-Connect		$4.51	NA
PE1B2	2 Fiber Cross-Connect		$38.79	NA
PE1B4	4 Fiber Cross-Connect		$52.31	NA
	Security Escort	Per half hr./Add'l half hr.		
PE1BT	Basic Time		NA	$56.09/$31.99
PE1OT	Overtime		NA	$67.75/$39.00
PE1PT	Premium Time		NA	$79.41/$46.01
AEH	Additional Engineering Fee (Note 5)	Per request, first half hr/add'l half hr.		First/Add'l Basic Time $31.00/$22.00 Overtime $37.00/$26.00

EXHIBIT A: BELLSOUTH/Global Crossing RATES – KENTUCKY
PHYSICAL COLLOCATION (continued)

Note(s):

N/A refers to rate elements which do not have a negotiated rate.

(1) **Subsequent Application Fee**: BellSouth requires the submission of an Application Fee for modifications to an existing arrangement. However, when the modifications do not require BellSouth to expend capital, BellSouth will assess the Subsequent Application Fee in lieu of the Application Fee. Proposed modifications that could result in assessment of a Subsequent Application Fee would cause BellSouth to analyze the following but are not limited to: floor loading changes, changes to HVAC requirements, power requirement changes which may result in a power plant upgrade, environmental or safety requirements, or equipment relocation. Should the Subsequent Application Fee not be included as part of this Attachment, Global Crossing will be assessed the full Application Fee for all subsequent activity for completed arrangements.

(2) **Space Preparation Fee:** The Space Preparation Fee is a one-time fee, assessed per arrangement, per location. It recovers the costs associated with the shared physical collocation area within a Premises, which include survey, engineering, design and modification costs for network, building and support systems. In the event Global Crossing opts for non-enclosed space, the space preparation fee will be assessed based on the total floor space dedicated to Global Crossing as prescribed in Section 7 of the Collocation Attachment.

(3) **Space Enclosure Fee**: The Space Enclosure Construction Fee is a one-time fee, assessed per enclosure, per location with a one-hundred (100) square foot minimum enclosure. It recovers costs associated with providing an optional equipment arrangement enclosure, which include architectural and engineering fees, materials, and installation costs. The cost for additional square feet is applicable only when ordered with the first 100 square feet and must be requested in fifty (50) square foot increments. Global Crossing may, at its option, arrange with a BellSouth Certified Contractor to construct the space enclosure in accordance with BellSouth's guidelines and specifications. In this event, the BellSouth Certified Contractor shall directly bill Global Crossing for the space enclosure, and this fee shall not be applicable.

(4) **Co-Carrier Cross-Connect.** As stated in Section 5 of the Collocation Attachment, Global Crossing may connect to other CLECs within the designated Premises in addition to, and not in lieu of, interconnection to BellSouth services and facilities. Where BellSouth must construct a cable rack structure to house the co-Carrier cross-connection, construction charges will be applied on an individual case basis as described in Section 5.6.1 of the Collocation Attachment. BellSouth shall provide an estimate of these charges in the Application Response. Where an existing cable rack structure is in place and has sufficient capacity to accommodate the co-Carrier cross-connection requested, the recurring charges as stated in this Exhibit A shall apply.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – KENTUCKY PHYSICAL COLLOCATION (continued)

(5) **Additional Engineering Fee**: BellSouth's additional engineering, and other labor costs associated with handling Global Crossing-requested modifications to requests in progress or augmentations to existing arrangements shall be recovered as Additional Engineering charges, under provisions in BellSouth's F.C.C. Number 1 Tariff, Sections 13.1 and 13.2. Should Additional Engineering rates not be included, Global Crossing agrees not to make changes to collocation arrangement after a Bona Fide Firm Order is submitted.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – LOUISIANA PHYSICAL COLLOCATION

Rates marked with an asterisk (*) are interim and are subject to true-up.

USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
PE1BA	Application Fee	Per request	NA	$4,910.00
PE1CA	Subsequent Application Fee (Note 1)	Per request	NA	$1,600.00 Minimum
PE1BB	Space Preparation Fee (Note 2)			
	Mechanical / HVAC*	Per ton (one ton minimum)		$2,400.00
PE1SB	Ground Bar*	Per connection		$720.00
PE1SC	Project Management*	Per arrangement		$1,675.00
PE1SD	Cable Racking / Fiber Duct	Per arrangement, sq. ft.		ICB
PE1SE	Frame / Aisle Lighting	Per arrangement, sq. ft.		ICB
PE1S	Framework Ground Conductors	Per arrangement		ICB
PE1SH	Extraordinary Modifications	Per arrangement		ICB
	Space Enclosure (Note 3)			
PE1BW	Welded Wire-mesh	Per first 100 sq. ft.	$197.55	NA
PE1CW	Welded Wire-mesh	Per add'l 50 sq. ft.	$20.07	NA
PE1PJ	Floor Space	Per sq. ft.	$4.01	NA
PE1BD	Cable Installation	Per cable	NA	$1,706.00 Disconnect charge $36.00
PE1PM	Cable Support Structure	Per entrance cable	$24.05	NA
	Power			
PE1PL	-48V DC Power	Per amp	$7.15	ICB
PE1FB	120V AC Power single phase*	Per breaker amp	$5.50	ICB
PE1FD	240V AC Power single phase*	Per breaker amp	$11.00	ICB
PE1FE	120V AC Power three phase*	Per breaker amp	$16.50	ICB
PE1FG	277 AC Power three phase*	Per breaker amp	$38.20	ICB
	Cross Connects (Note 4)	Per cross connect		First/Add'l
PE1P2	2-wire		$0.26	$23.04/$22.11
PE1P4	4-wire		$0.52	$23.23/$22.24
PE1P1	DS-1		$2.03	$43.61/$30.60
PE1P3	DS-3		$36.27	$41.46/$29.20

LOUISIANA (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
	Cross Connects (continued)	Per cross connect		First Add'l
PE1F2	2-fiber		$19.13	$41.07 $29.63
PE1F4	4-fiber		$34.38	$49.81 $38.37
				Disconnect Charges
				First Add'l
	2-wire			$9.48 $8.54
	4-wire			$9.53 $8.55
	DS-1			$9.56 $8.63
	DS-3			$11.06 $8.86
	2-fiber			$12.84 $10.29
	4-fiber			$16.75 $14.20
	Co-Carrier Cross-Connect (**Note 5**)			
PE1ES Fiber	Fiber Cable Support Structure, existing	Per linear ft.	$0.06	NA
PE1DS Copper	Copper or Coaxial Cable Support Structure, existing	Per linear ft.	$0.03	NA
(TBD)	Cable Support Structure Construction, new	Per new construction	NA	ICB
PE1AX	Security Access System Security System*	Per premises	$52.00	
	New Access Card Activation*	Per card		$55.00
PE1AA	Administrative change, existing card*	Per card		$35.00
PE1AR	Replace lost or stolen card	Per card		$250.00
PE1SR	Space Availability Report*	Per premises requested		$550.00
	POT Bay Arrangements *Prior to 6/1/99*	Per cross-connect		
PE1PE	2-Wire Cross-Connect		$0.0776	NA
PE1PF	4-Wire Cross-Connect		$0.1552	NA
PE1PG	DS1 Cross-Connect		$0.6406	NA
PE1PH	DS3 Cross-Connect		$4.75	NA
PE1B2	2 Fiber Cross-Connect		$47.44	NA
PE1B4	4 Fiber Cross-Connect		$63.97	NA

LOUISIANA (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
	Security Escort	Per half hr. Add'l half hr.		
PE1BT	Basic Time		NA	$32.35/$19.95
PE1OT	Overtime		NA	$40.50/$25.00
PE1PT	Premium Time		NA	$48.66/$30.05
AEH	Additional Engineering Fee (**Note 6**)	Per request, first half hr/add'l half hr.		First/Add'l Basic Time $31.00/$22.00 Overtime $37.00/$26.00

Note(s):

N/A refers to rate elements which do not have a negotiated rate.

(1) **Subsequent Application Fee**: BellSouth requires the submission of an Application Fee for modifications to an existing arrangement. However, when the modifications do not require BellSouth to expend capital, BellSouth will assess the Subsequent Application Fee in lieu of the Application Fee. Proposed modifications that could result in assessment of a Subsequent Application Fee would cause BellSouth to analyze the following but are not limited to: floor loading changes, changes to HVAC requirements, power requirement changes which may result in a power plant upgrade, environmental or safety requirements, or equipment relocation. Should the Subsequent Application Fee not be included as part of this Attachment, Global Crossing will be assessed the full Application Fee for all subsequent activity for completed arrangements.

(2) **Space Preparation Fee**: The Space Preparation Fee is a one-time fee, assessed per arrangement, per location. It recovers the costs associated with the shared physical collocation area within a Premises, which include survey, engineering, design and modification costs for network, building and support systems. In the event Global Crossing opts for non-enclosed space, the space preparation fee will be assessed based on the total floor space dedicated to Global Crossing as prescribed in Section 7 of the Collocation Attachment.

(3) **Space Enclosure Fee**: The Space Enclosure Construction Fee is a monthly recurring fee, assessed per enclosure, per location with a one-hundred (100) square foot minimum enclosure. It recovers costs associated with providing an optional equipment arrangement enclosure, which include architectural and engineering fees, materials, and installation costs. The cost for additional square feet is applicable only when ordered with the first 100 square feet and must be requested in fifty (50) square foot increments. Global Crossing may, at its option, arrange with a BellSouth Certified Contractor to construct the space enclosure in accordance with BellSouth's guidelines and specifications. In this event, the BellSouth Certified Contractor shall directly bill Global Crossing for the space enclosure, and this fee shall not be applicable.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – LOUISIANA PHYSICAL COLLOCATION (continued)

(4) **Cross Connects**: The charges for cross connects are for orders placed electronically. Cross connect elements may also be ordered manually for which there is an additional charge per element.

		Disconnect Charges
	First / Additional	First / Additional
2-wire	$24.92/$23.99	$10.56/$9.62
4-wire	$25.11/$24.12	$10.61/$9.63
DS-1	$45.49/$32.48	$10.64/$9.71
DS-3	$43.34/$31.08	$12.14/$9.94

(5) **Co-Carrier Cross-Connect.** As stated in Section 5 of the Collocation Attachment, Global Crossing may connect to other CLECs within the designated Premises in addition to, and not in lieu of, interconnection to BellSouth services and facilities. Where BellSouth must construct a cable rack structure to house the co-Carrier cross-connection, construction charges will be applied on an individual case basis as described in Section 5.6.1 of the Collocation Attachment. BellSouth shall provide an estimate of these charges in the Application Response. Where an existing cable rack structure is in place and has sufficient capacity to accommodate the co-Carrier cross-connection requested, the recurring charges as stated in this Exhibit A shall apply.

(6) **Additional Engineering Fee:** BellSouth's additional engineering, and other labor costs associated with handling Global Crossing-requested modifications to requests in progress or augmentations to existing arrangements shall be recovered as Additional Engineering charges, under provisions in BellSouth's F.C.C. Number 1 Tariff, Sections 13.1 and 13.2. Should Additional Engineering rates not be included, Global Crossing agrees not to make changes to collocation arrangement after a Bona Fide Firm Order is submitted.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – MISSISSIPPI PHYSICAL COLLOCATION

Rates marked with an asterisk (*) are interim and are subject to true-up.

USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
PE1BA	Application Fee	Per request	NA	$6,993.00 Disconnect Charge $1.70
PE1CA	Subsequent Application Fee (Note 1)	Per request	NA	$1,600.00 Minimum
PE1BB	Space Preparation Fee (Note 2)			
	Mechanical / HVAC*	Per ton (one ton minimum)		$2,400.00
PE1SB	Ground Bar*	Per connection		$720.00
PE1SC	Project Management*	Per arrangement		$1,675.00
PE1SD	Cable Racking / Fiber Duct	Per arrangement, sq. ft.		ICB
PE1SE	Frame / Aisle Lighting	Per arrangement, sq. ft.		ICB
PE1S	Framework Ground Conductors	Per arrangement		ICB
PE1SH	Extraordinary Modifications	Per arrangement		ICB
	Space Enclosure (Note 3)			
PE1BW	Welded Wire-mesh	Per first 100 sq. ft.	$205.08	NA
PE1CW	Welded Wire-mesh	Per add'l 50 sq. ft.	$20.83	NA
PE1PJ	Floor Space	Per sq. ft.	$3.45	
PE1BD	Cable Installation	Per cable	NA	$2,419.00 Disconnection charge $53.24
PE1PM	Cable Support Structure	Per entrance cable	$22.90	NA
	Power			
PE1PL	-48V DC Power	Per amp	$6.93	ICB
PE1FB	120V AC Power single phase*	Per breaker amp	$5.50	ICB
PE1FD	240V AC Power single phase*	Per breaker amp	$11.00	ICB
PE1FE	120V AC Power three phase*	Per breaker amp	$16.50	ICB
PE1FG	277 AC Power three phase*	Per breaker amp	$38.20	ICB
	Cross Connects (Note 4)	Per cross connect		First/Add'l
PE1P2	2-wire		$.3996	$30.93/$29.59
PE1P4	4-wire		$.7992	$31.17/$29.77

MISSISSIPPI (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
	Cross Connects (continued)	Per cross connect		First/Add'l
PE1P1	DS-1		$2.90	$60.42/$41.68
PE1P3	DS-3		$53.31	$57.45/$39.81
PE1F2	2-fiber		$15.64	$41.56/$29.82
PE1F4	4-fiber		$28.11	$50.53/$38.78
				Disconnect Charges
				First/Add'l
	2-wire			$12.76/$11.43
	4-wire			$12.83/$11.43
	DS-1			$12.87/$11.54
	DS-3			$14.92/$11.80
	2-fiber			$12.96/$10.34
	4-fiber			$16.97/$14.35
	Co-Carrier Cross-Connect (**Note 5**)			
PE1ES Fiber	Fiber Cable Support Structure, existing	Per linear ft.	$0.06	NA
PE1DS Copper	Copper or Coaxial Cable Support Structure, existing	Per linear ft.	$0.03	NA
(TBD)	Cable Support Structure Construction, new	Per new construction	NA	ICB
PE1AX	Security Access System Security System*	Per premises	$52.00	
	New Access Card Activation*	Per card		$55.00
PE1AA	Administrative change, existing card*	Per card		$35.00
PE1AR	Replace lost or stolen card	Per card		$250.00
PE1SR	Space Availability Report*	Per premises requested		$550.00
	POT Bay Arrangements *Prior to 6/1/99*	Per cross-connect		
PE1PE	2-Wire Cross-Connect		$0.1195	NA
PE1PF	4-Wire Cross-Connect		$0.2389	NA
PE1PG	DS1 Cross-Connect		$0.9862	NA
PE1PH	DS3 Cross-Connect		$5.81	NA
PE1B2	2 Fiber Cross-Connect		$38.79	NA
PE1B4	4 Fiber Cross-Connect		$52.31	NA

MISSISSIPPI (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
	Security Escort	Per half hr./Add'l half hr.		
PE1BT	Basic Time		NA	$42.87/$25.54
PE1OT	Overtime		NA	$54.43/$32.41
PE1PT	Premium Time		NA	$65.99/$39.28
AEH	Additional Engineering Fee (**Note 6**)	Per request, first half hr/add'l half hr.		First/Add'l Basic Time $31.00/$22.00 Overtime $37.00/$26.00

Note(s):

N/A refers to rate elements which do not have a negotiated rate.

(1) **Subsequent Application Fee**: BellSouth requires the submission of an Application Fee for modifications to an existing arrangement. However, when the modifications do not require BellSouth to expend capital, BellSouth will assess the Subsequent Application Fee in lieu of the Application Fee. Proposed modifications that could result in assessment of a Subsequent Application Fee would cause BellSouth to analyze the following but are not limited to: floor loading changes, changes to HVAC requirements, power requirement changes which may result in a power plant upgrade, environmental or safety requirements, or equipment relocation. Should the Subsequent Application Fee not be included as part of this Attachment, Global Crossing will be assessed the full Application Fee for all subsequent activity for completed arrangements.

(2) **Space Preparation Fee**: The Space Preparation Fee is a one-time fee, assessed per arrangement, per location. It recovers the costs associated with the shared physical collocation area within a Premises, which include survey, engineering, design and modification costs for network, building and support systems. In the event Global Crossing opts for non-enclosed space, the space preparation fee will be assessed based on the total floor space dedicated to Global Crossing as prescribed in Section 7 of the Collocation Attachment.

(3) **Space Enclosure Fee**: The Space Enclosure Construction Fee is a monthly recurring fee, assessed per enclosure, per location with a one-hundred (100) square foot minimum enclosure. It recovers costs associated with providing an optional equipment arrangement enclosure, which include architectural and engineering fees, materials, and installation costs. The cost for additional square feet is applicable only when ordered with the first 100 square feet and must be requested in fifty (50) square foot increments. Global Crossing may, at its option, arrange with a BellSouth Certified Contractor to construct the space enclosure in accordance with BellSouth's guidelines and specifications. In this event, the BellSouth Certified Contractor shall directly bill Global Crossing for the space enclosure, and this fee shall not be applicable.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – MISSISSIPPI PHYSICAL COLLOCATION (continued)

(4) **Cross Connects**: The charges for cross connects are for orders placed electronically. Cross connect elements may also be ordered manually for which there is an additional charge per element.

	First / Additional	Disconnect Charges First / Additional
2-wire	$33.58 / $32.24	$14.27 / $12.94
4-wire	$33.82 / $32.42	$14.34 / $12.94
DS-1	$63.07 / $44.33	$14.38 / $13.05
DS-3	$60.10 / $42.46	$16.43 / $13.31

(5) **Co-Carrier Cross-Connect**. As stated in Section 5 of the Collocation Attachment, Global Crossing may connect to other CLECs within the designated Premises in addition to, and not in lieu of, interconnection to BellSouth services and facilities. Where BellSouth must construct a cable rack structure to house the co-Carrier cross-connection, construction charges will be applied on an individual case basis as described in Section 5.6.1 of the Collocation Attachment. BellSouth shall provide an estimate of these charges in the Application Response. Where an existing cable rack structure is in place and has sufficient capacity to accommodate the co-Carrier cross-connection requested, the recurring charges as stated in this Exhibit A shall apply.

(6) **Additional Engineering Fee**: BellSouth's additional engineering, and other labor costs associated with handling Global Crossing-requested modifications to requests in progress or augmentations for existing arrangements shall be recovered as Additional Engineering charges, under provisions in BellSouth's F.C.C. Number 1 Tariff, Sections 13.1 and 13.2. Should Additional Engineering rates not be included, Global Crossing agrees not to make changes to collocation arrangement after a Bona Fide Firm Order is submitted.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – NORTH CAROLINA PHYSICAL COLLOCATION

Rates marked with an asterisk (*) are interim and are subject to true-up.

USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
PE1BA	Application Fee	Per request	NA	$3,850.00
PE1CA	Subsequent Application Fee (Note 1)	Per request	NA	$1,600.00 Minimum
	Space Preparation Fee			
	Central Office Modification	Per sq. ft.	$1.57	
	Common Systems Modification – Cageless	Per sq. ft.	$3.26	
	Common Systems Modification – Caged	Per cage	$110.79	
	Power	Per nominal –48v DC Amp	$5.76	
	Space Enclosure (Note 2)			
PE1BW	Welded Wire-mesh	Per first 100 sq. ft.	$102.76	NA
PE1CW	Welded Wire-mesh	Per add'l 50 sq. ft.	$10.44	NA
PE1PJ	Floor Space	Per sq. ft.	$3.45	NA
PE1BD	Cable Installation	Per cable	NA	$2,305.00
PE1PM	Cable Support Structure	Per entrance cable	$21.33	NA
	Power			
PE1PL	-48V DC Power	Per amp	$6.65	ICB
PE1FB	120V AC Power single phase*	Per breaker amp	$5.50	ICB
PE1FD	240V AC Power single phase*	Per breaker amp	$11.00	ICB
PE1FE	120V AC Power three phase*	Per breaker amp	$16.50	ICB
PE1FG	277 AC Power three phase*	Per breaker amp	$38.20	ICB
	Cross Connects (Note 3)	Per cross connect		First/Add'l
PE1P2	2-wire		$0.32	$41.78/$39.23
PE1P4	4-wire		$0.64	$41.91/$39.25
PE1P1	DS-1		$2.34	$71.02/$51.08
PE1P3	DS-3		$42.84	$69.84/$49.43
PE1F2	2-fiber		$15.99	$67.34/$48.55
PE1F4	4-fiber		$28.74	$82.35/$63.56

NORTH CAROLINA (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
	Co-Carrier Cross-Connect (Note 4)			
PE1ES Fiber	Fiber Cable Support Structure, existing	Per linear ft.	$0.06	NA
PE1DS Copper	Copper or Coaxial Cable Support Structure, existing	Per linear ft.	$0.03	NA
(TBD)	Cable Support Structure Construction, new	Per new construction	NA	ICB
PE1AX	Security Access System Security System*	Per premises	$52.00	
	New Access Card Activation*	Per card		$55.00
PE1AA	Administrative change, existing card*	Per card		$35.00
PE1AR	Replace lost or stolen card	Per card		$250.00
PE1SR	Space Availability Report*	Per premises requested		$550.00
	POT Bay Arrangements *Prior to 6/1/99*	Per cross-connect		
PE1PE	2-Wire Cross-Connect		$0.10	NA
PE1PF	4-Wire Cross-Connect		$0.19	NA
PE1PG	DS1 Cross-Connect		$0.79	NA
PE1PH	DS3 Cross-Connect		$4.85	NA
PE1B2	2 Fiber Cross-Connect		$39.67	NA
PE1B4	4 Fiber Cross-Connect		$53.49	NA
	Security Escort	Per half hr./Add'l half hr.		
PE1BT	Basic Time		NA	$42.92/$25.56
PE1OT	Overtime		NA	$54.51/$32.44
PE1PT	Premium Time		NA	$66.10/$39.32
AEH	Additional Engineering Fee (Note 5)	Per request, first half hr/add'l half hr.		First/Add'l Basic Time $31.00/$22.00 Overtime $37.00/$26.00

EXHIBIT A: BELLSOUTH/Global Crossing RATES – NORTH CAROLINA PHYSICAL COLLOCATION (continued)

Note(s):

N/A refers to rate elements which do not have a negotiated rate.

(1) **Subsequent Application Fee**: BellSouth requires the submission of an Application Fee for modifications to an existing arrangement. However, when the modifications do not require BellSouth to expend capital, BellSouth will assess the Subsequent Application Fee in lieu of the Application Fee. Proposed modifications that could result in assessment of a Subsequent Application Fee would cause BellSouth to analyze the following but are not limited to: floor loading changes, changes to HVAC requirements, power requirement changes which may result in a power plant upgrade, environmental or safety requirements, or equipment relocation. Should the Subsequent Application Fee not be included as part of this Attachment, Global Crossing will be assessed the full Application Fee for all subsequent activity for completed arrangements.

(2) **Space Enclosure Fee**: The Space Enclosure Construction Fee is a monthly recurring fee, assessed per enclosure, per location with a one-hundred (100) square foot minimum enclosure. It recovers costs associated with providing an optional equipment arrangement enclosure, which include architectural and engineering fees, materials, and installation costs. The cost for additional square feet is applicable only when ordered with the first 100 square feet and must be requested in fifty (50) square foot increments. Global Crossing may, at its option, arrange with a BellSouth Certified Contractor to construct the space enclosure in accordance with BellSouth's guidelines and specifications. In this event, the BellSouth Certified Contractor shall directly bill Global Crossing for the space enclosure, and this fee shall not be applicable.

(3) **Cross Connect:** The charges for cross connects are for orders placed electronically. Cross connect elements may also be ordered manually for which there is an additional charge per element.

	First/Additional
2-wire	$46.53/$43.98
4-wire	$46.64/$43.98
DS-1	$75.72/$55.78
DS-3	$74.54/$54.13

(4) **Co-Carrier Cross-Connect.** As stated in Section 5 of the Collocation Attachment, Global Crossing may connect to other CLECs within the designated Premises in addition to, and not in lieu of, interconnection to BellSouth services and facilities. Where BellSouth must construct a cable rack structure to house the co-Carrier cross-connection, construction charges will be applied on an individual case basis as described in Section 5.6.1 of the Collocation Attachment. BellSouth shall provide an estimate of these charges in the Application Response. Where an existing cable rack structure is in place and has sufficient capacity to accommodate the co-Carrier cross-connection requested, the recurring charges as stated in this Exhibit A shall apply.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – NORTH CAROLINA PHYSICAL COLLOCATION (continued)

(5) **Additional Engineering Fee**: BellSouth's additional engineering, and other labor costs associated with handling Global Crossing-requested modifications to requests in progress or augmentations for existing arrangements shall be recovered as Additional Engineering charges, under provisions in BellSouth's F.C.C. Number 1 Tariff, Sections 13.1 and 13.2. Should Additional Engineering rates not be included, Global Crossing agrees not to make changes to collocation arrangement after a Bona Fide Firm Order is submitted.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – SOUTH CAROLINA PHYSICAL COLLOCATION

Rates marked with an asterisk (*) are interim and are subject to true-up.

USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
PE1BA	Application Fee	Per request	NA	$4,850.00
PE1CA	Subsequent Application Fee (Note 1)	Per request	NA	$1,600.00 Minimum
PE1BB	Space Preparation Fee (Note 2)			
	Mechanical / HVAC*	Per ton (one ton minimum)		$2,400.00
PE1SB	Ground Bar*	Per connection		$720.00
PE1SC	Project Management*	Per arrangement		$1,675.00
PE1SD	Cable Racking / Fiber Duct	Per arrangement, sq. ft.		ICB
PE1SE	Frame / Aisle Lighting	Per arrangement, sq. ft.		ICB
PE1S	Framework Ground Conductors	Per arrangement		ICB
PE1SH	Extraordinary Modifications	Per arrangement		ICB
	Space Enclosure (Note 3)			
PE1BW	Welded Wire-mesh	Per first 100 sq. ft.	$224.60	NA
PE1CW	Welded Wire-mesh	Per add'l 50 sq. ft.	$22.81	NA
PE1PJ	Floor Space	Per sq. ft.	$3.90	NA
PE1BD	Cable Installation	Per cable	NA	$2,217.00
PE1PM	Cable Support Structure	Per entrance cable	$24.55	NA
	Power			
PE1PL	-48V DC Power	Per amp	$7.09	ICB
PE1FB	120V AC Power single phase*	Per breaker amp	$5.50	ICB
PE1FD	240V AC Power single phase*	Per breaker amp	$11.00	ICB
PE1FE	120V AC Power three phase*	Per breaker amp	$16.50	ICB
PE1FG	277 AC Power three phase*	Per breaker amp	$38.20	ICB
	Cross Connects (Note 4)	Per cross connect		First/Add'l
PE1P2	2-wire		$.3648	$41.50/$38.94
PE1P4	4-wire		$.7297	$41.56/$38.90
PE1P1	DS-1		$2.70	$70.79/$50.78
PE1P3	DS-3		$49.24	$69.60/$49.14
PE1F2	2-fiber		$15.06	$69.28/$48.89
PE1F4	4-fiber		$27.08	$84.07/$63.68

SOUTH CAROLINA (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
	Co-Carrier Cross-Connect (Note 5)			
PE1ES Fiber	Fiber Cable Support Structure, existing	Per linear ft.	$0.06	NA
PE1DS Copper	Copper or Coaxial Cable Support Structure, existing	Per linear ft.	$0.03	NA
(TBD)	Cable Support Structure Construction, new	Per new construction	NA	ICB
PE1AX	Security Access System Security System*	Per premises	$52.00	
	New Access Card Activation*	Per card		$55.00
PE1AA	Administrative change, existing card*	Per card		$35.00
PE1AR	Replace lost or stolen card	Per card		$250.00
PE1SR	Space Availability Report*	Per premises requested		$550.00
	POT Bay Arrangements *Prior to 6/1/99*	Per cross-connect		
PE1PE	2-Wire Cross-Connect		$0.1091	NA
PE1PF	4-Wire Cross-Connect		$0.2181	NA
PE1PG	DS1 Cross-Connect		$0.9004	NA
PE1PH	DS3 Cross-Connect		$5.64	NA
PE1B2	2 Fiber Cross-Connect		$37.36	NA
PE1B4	4 Fiber Cross-Connect		$50.38	NA
	Security Escort	Per half hr./Add'l half hr.		
PE1BT	Basic Time		NA	$43.00/$25.57
PE1OT	Overtime		NA	$54.62/$32.46
PE1PT	Premium Time		NA	$66.24/$39.35
AEH	Additional Engineering Fee (Note 6)	Per request, first half hr/add'l half hr.		First/Add'l Basic Time $31.00/$22.00 Overtime $37.00/$26.00

EXHIBIT A: BELLSOUTH/Global Crossing RATES – SOUTH CAROLINA PHYSICAL COLLOCATION (continued)

Note(s):

N/A refers to rate elements which do not have a negotiated rate.

(1) **Subsequent Application Fee**: BellSouth requires the submission of an Application Fee for modifications to an existing arrangement. However, when the modifications do not require BellSouth to expend capital, BellSouth will assess the Subsequent Application Fee in lieu of the Application Fee. Proposed modifications that could result in assessment of a Subsequent Application Fee would cause BellSouth to analyze the following but are not limited to: floor loading changes, changes to HVAC requirements, power requirement changes which may result in a power plant upgrade, environmental or safety requirements, or equipment relocation. Should the Subsequent Application Fee not be included as part of this Attachment, Global Crossing will be assessed the full Application Fee for all subsequent activity for completed arrangements.

(2) **Space Preparation Fee:** The Space Preparation Fee is a one-time fee, assessed per arrangement, per location. It recovers the costs associated with the shared physical collocation area within a Premises, which include survey, engineering, design and modification costs for network, building and support systems. In the event Global Crossing opts for non-enclosed space, the space preparation fee will be assessed based on the total floor space dedicated to Global Crossing as prescribed in Section 7 of the Collocation Attachment.

(3) **Space Enclosure Fee**: The Space Enclosure Construction Fee is a monthly recurring fee, assessed per enclosure, per location with a one-hundred (100) square foot minimum enclosure. It recovers costs associated with providing an optional equipment arrangement enclosure, which include architectural and engineering fees, materials, and installation costs. The cost for additional square feet is applicable only when ordered with the first 100 square feet and must be requested in fifty (50) square foot increments. Global Crossing may, at its option, arrange with a BellSouth Certified Contractor to construct the space enclosure in accordance with BellSouth's guidelines and specifications. In this event, the BellSouth Certified Contractor shall directly bill Global Crossing for the space enclosure, and this fee shall not be applicable.

(4) **Cross Connects**: The charges for cross connects are for orders placed electronically. Cross connect elements may also be ordered manually for which there is an additional charge per element.

	First / Additional
2-wire	$46.66 / $44.10
4-wire	$46.68 / $44.02
DS-1	$75.88 / $55.87
DS-3	$74.69 / $54.23

EXHIBIT A: BELLSOUTH/Global Crossing RATES – SOUTH CAROLINA PHYSICAL COLLOCATION (continued)

(5) **Co-Carrier Cross-Connect**. As stated in Section 5 of the Collocation Attachment, Global Crossing may connect to other CLECs within the designated Premises in addition to, and not in lieu of, interconnection to BellSouth services and facilities. Where BellSouth must construct a cable rack structure to house the co-Carrier cross-connection, construction charges will be applied on an individual case basis as described in Section 5.6.1 of the Collocation Attachment. BellSouth shall provide an estimate of these charges in the Application Response. Where an existing cable rack structure is in place and has sufficient capacity to accommodate the co-Carrier cross-connection requested, the recurring charges as stated in this Exhibit A shall apply.

(6) **Additional Engineering Fee**: BellSouth's additional engineering, and other labor costs associated with handling Global Crossing-requested modifications to requests in progress or augmentations to existing arrangements shall be recovered as Additional Engineering charges, under provisions in BellSouth's F.C.C. Number 1 Tariff, Sections 13.1 and 13.2. Should Additional Engineering rates not be included, Global Crossing agrees not to make changes to collocation arrangement after a Bona Fide Firm Order is submitted.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – TENNESSEE PHYSICAL COLLOCATION

*** Rates are interim and are subject to true-up.**

USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
PE1BA	Application Fee	Per request	NA	$3,850.00
PE1CA	Subsequent Application Fee (Note 1)	Per request	NA	$1,600.00 Minimum
PE1BB	Space Preparation Fee (Note 2)			
	Mechanical / HVAC*	Per ton (one ton minimum)		$2,400.00
PE1SB	Ground Bar*	Per connection		$720.00
PE1SC	Project Management*	Per arrangement		$1,675.00
PE1SD	Cable Racking / Fiber Duct	Per arrangement, sq. ft.		ICB
PE1SE	Frame / Aisle Lighting	Per arrangement, sq. ft.		ICB
PE1S	Framework Ground Conductors	Per arrangement		ICB
PE1SH	Extraordinary Modifications	Per arrangement		ICB
	Space Enclosure (Note 3)			
PE1BW	Welded Wire-mesh	Per first 100 sq. ft.	$190.79	NA
PE1CW	Welded Wire-mesh	Per add'l 50 sq. ft.	$19.38	NA
PE1PJ	Floor Space	Per sq. ft.	$7.50	NA
PE1BD	Cable Installation	Per cable	NA	$2,750.00
PE1PM	Cable Support Structure	Per entrance cable	$13.35	NA
	Power			
PE1PL	-48V DC Power	Per amp	$5.00	ICB
PE1FB	120V AC Power single phase*	Per breaker amp	$5.50	ICB
PE1FD	240V AC Power single phase*	Per breaker amp	$11.00	ICB
PE1FE	120V AC Power three phase*	Per breaker amp	$16.50	ICB
PE1FG	277 AC Power three phase*	Per breaker amp	$38.20	ICB
	Cross Connects	Per cross connect		First/Add'l
PE1P2	2-wire		$0.30	$19.20/$19.20
PE1P4	4-wire		$0.50	$19.20/$19.20
PE1P1	DS-1		$8.00	$155.00/$27.00
PE1P3	DS-3		$72.00	$155.00/$27.00
PE1F2	2-fiber		$15.64	$41.56/$29.82
PE1F4	4-fiber		$28.11	$50.53/$38.78

TENNESSEE (continued)				
USOC	Rate Element Description	Unit	Recurring Rate (RC)	Non-Recurring Rate (NRC)
	Co-Carrier Cross-Connect (Note 4)			
PE1ES Fiber	Fiber Cable Support Structure, existing	Per linear ft.	$0.06	NA
PE1DS Copper	Copper or Coaxial Cable Support Structure, existing	Per linear ft.	$0.03	NA
(TBD)	Cable Support Structure Construction, new	Per new construction	NA	ICB
PE1AX	Security Access System Security System	Per premises	$52.00	
	New Access Card Activation	Per card		$55.00
PE1AA	Administrative change, existing card	Per card		$35.00
PE1AR	Replace lost or stolen card	Per card		$250.00
PE1SR	Space Availability Report*	Per premises requested		$550.00
	POT Bay Arrangements *Prior to 6/1/99*	Per cross-connect		
PE1PE	2-Wire Cross-Connect		$0.40	NA
PE1PF	4-Wire Cross-Connect		$1.20	NA
PE1PG	DS1 Cross-Connect		$1.20	NA
PE1PH	DS3 Cross-Connect		$8.00	NA
PE1B2	2 Fiber Cross-Connect		$38.79	NA
PE1B4	4 Fiber Cross-Connect		$52.31	NA
	Security Escort	Per half hr./Add'l half hr.		
PE1BT	Basic Time		NA	$41.00/$25.00
PE1OT	Overtime		NA	$48.00/$30.00
PE1PT	Premium Time		NA	$55.00/$35.00
AEH	Additional Engineering Fee (Note 5)	Per request, first half hr/add'l half hr.		First/Add'l Basic Time $31.00/$22.00 Overtime $37.00/$26.00

EXHIBIT A: BELLSOUTH/Global Crossing RATES – TENNESSEE PHYSICAL COLLOCATION (continued)

Note(s):

N/A refers to rate elements which do not have a negotiated rate.

(1) **Subsequent Application Fee**: BellSouth requires the submission of an Application Fee for modifications to an existing arrangement. However, when the modifications do not require BellSouth to expend capital, BellSouth will assess the Subsequent Application Fee in lieu of the Application Fee. Proposed modifications that could result in assessment of a Subsequent Application Fee would cause BellSouth to analyze the following but are not limited to: floor loading changes, changes to HVAC requirements, power requirement changes which may result in a power plant upgrade, environmental or safety requirements, or equipment relocation. Should the Subsequent Application Fee not be included as part of this Attachment, Global Crossing will be assessed the full Application Fee for all subsequent activity for completed arrangements.

(2) **Space Preparation Fee**: The Space Preparation Fee is a one-time fee, assessed per arrangement, per location. It recovers the costs associated with the shared physical collocation area within a Premises, which include survey, engineering, design and modification costs for network, building and support systems. In the event Global Crossing opts for non-enclosed space, the space preparation fee will be assessed based on the total floor space dedicated to Global Crossing as prescribed in Section 7 of the Collocation Attachment.

(3) **Space Enclosure Fee**: The Space Enclosure Construction Fee is a monthly recurring fee, assessed per enclosure, per location with a one-hundred (100) square foot minimum enclosure. It recovers costs associated with providing an optional equipment arrangement enclosure, which include architectural and engineering fees, materials, and installation costs. The cost for additional square feet is applicable only when ordered with the first 100 square feet and must be requested in fifty (50) square foot increments. Global Crossing may, at its option, arrange with a BellSouth Certified Contractor to construct the space enclosure in accordance with BellSouth's guidelines and specifications. In this event, the BellSouth Certified Contractor shall directly bill Global Crossing for the space enclosure, and this fee shall not be applicable.

(4) **Co-Carrier Cross-Connect**. As stated in Section 5 of the Collocation Attachment, Global Crossing may connect to other CLECs within the designated Premises in addition to, and not in lieu of, interconnection to BellSouth services and facilities. Where BellSouth must construct a cable rack structure to house the co-Carrier cross-connection, construction charges will be applied on an individual case basis as described in Section 5.6.1 of the Collocation Attachment. BellSouth shall provide an estimate of these charges in the Application Response. Where an existing cable rack structure is in place and has sufficient capacity to accommodate the co-Carrier cross-connection requested, the recurring charges as stated in this Exhibit A shall apply.

EXHIBIT A: BELLSOUTH/Global Crossing RATES – TENNESSEE PHYSICAL COLLOCATION (continued)

(5) **Additional Engineering Fee**: BellSouth's additional engineering, and other labor costs associated with handling Global Crossing-requested modifications to requests in progress or augmentations for existing arrangements shall be recovered as Additional Engineering charges, under provisions in BellSouth's F.C.C. Number 1 Tariff, Sections 13.1 and 13.2. Should Additional Engineering rates not be included, Global Crossing agrees not to make changes to collocation arrangement after a Bona Fide Firm Order is submitted.

EXHIBIT B

ENVIRONMENTAL AND SAFETY PRINCIPLES

The following principles provide basic guidance on environmental and safety issues when applying for and establishing Physical Collocation arrangements.

1. GENERAL PRINCIPLES

1.1 Compliance with Applicable Law. BellSouth and Global Crossing agree to comply with applicable federal, state, and local environmental and safety laws and regulations including U.S. Environmental Protection Agency (USEPA) regulations issued under the Clean Air Act (CAA), Clean Water Act (CWA), Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Superfund Amendments and Reauthorization Act (SARA), the Toxic Substances Control Act (TSCA), and OSHA regulations issued under the Occupational Safety and Health Act of 1970, as amended and NFPA and National Electrical Codes (NEC) and the NESC ("Applicable Laws"). Each Party shall notify the other if compliance inspections are conducted by regulatory agencies and/or citations are issued that relate to any aspect of this Attachment.

1.2 Notice. BellSouth and Global Crossing shall provide notice to the other, including Material Safety Data Sheets (MSDSs), of known and recognized physical hazards or Hazardous Chemicals existing on site or brought on site. Each Party is required to provide specific notice for known potential Imminent Danger conditions. Global Crossing should contact 1-800-743-6737 for BellSouth MSDS sheets.

1.3 Practices/Procedures. BellSouth may make available additional environmental control procedures for Global Crossing to follow when working at a BellSouth Premises (See Section 2, below). These practices/procedures will represent the regular work practices required to be followed by the employees and contractors of BellSouth for environmental protection. Global Crossing will require its contractors, agents and others accessing the BellSouth Premises to comply with these practices. Section 2 lists the Environmental categories where BST practices should be followed by CLEC when operating in the BellSouth Premises.

1.4 Environmental and Safety Inspections. BellSouth reserves the right to inspect the Global Crossing space with proper notification. BellSouth reserves the right to stop any Global Crossing work operation that imposes Imminent Danger to the environment, employees or other persons in the area or Facility.

1.5 Hazardous Materials Brought On Site. Any hazardous materials brought into, used, stored or abandoned at the BellSouth Premises by Global Crossing are owned by Global Crossing. Global Crossing will indemnify BellSouth for claims, lawsuits or

damages to persons or property caused by these materials. Without prior written BellSouth approval, no substantial new safety or environmental hazards can be created by Global Crossing or different hazardous materials used by Global Crossing at BellSouth Facility. Global Crossing must demonstrate adequate emergency response capabilities for its materials used or remaining at the BellSouth Facility.

1.6 Spills and Releases. When contamination is discovered at a BellSouth Premises, the Party discovering the condition must notify BellSouth. All Spills or Releases of regulated materials will immediately be reported by Global Crossing to BellSouth.

1.7 Coordinated Environmental Plans and Permits. BellSouth and Global Crossing will coordinate plans, permits or information required to be submitted to government agencies, such as emergency response plans, spill prevention control and countermeasures (SPCC) plans and community reporting. If fees are associated with filing, BellSouth and Global Crossing will develop a cost sharing procedure. If BellSouth's permit or EPA identification number must be used, Global Crossing must comply with all of BellSouth's permit conditions and environmental processes, including environmental "best management practices (BMP)" (see Section 2, below) and/or selection of BST disposition vendors and disposal sites.

1.8 Environmental and Safety Indemnification. BellSouth and Global Crossing shall indemnify, defend and hold harmless the other Party from and against any claims (including, without limitation, third-party claims for personal injury or death or real or personal property damage), judgments, damages, (including direct and indirect damages, and punitive damages), penalties, fines, forfeitures, costs, liabilities, interest and losses arising in connection with the violation or alleged violation of any Applicable Law or contractual obligation or the presence or alleged presence of contamination arising out of the acts or omissions of the indemnifying Party, its agents, contractors, or employees concerning its operations at the Facility.

2. CATEGORIES FOR CONSIDERATION OF ENVIRONMENTAL ISSUES

When performing functions that fall under the following Environmental categories on BellSouth's Premises, Global Crossing agrees to comply with the applicable sections of the current issue of BellSouth's Environmental and Safety Methods and Procedures (M&Ps), incorporated herein by this reference. Global Crossing further agrees to cooperate with BellSouth to ensure that Global Crossing's employees, agents, and/or subcontractors are knowledgeable of and satisfy those provisions of BellSouth's Environmental M&Ps which apply to the specific Environmental function being performed by Global Crossing, its employees, agents and/or subcontractors.

The most current version of reference documentation must be requested from BellSouth.

ENVIRONMENTAL CATEGORIES	ENVIRONMENTAL ISSUES	ADDRESSED BY THE FOLLOWING DOCUMENTATION
Disposal of hazardous material or other regulated material (e.g., batteries, fluorescent tubes, solvents & cleaning materials)	Compliance with all applicable local, state, & federal laws and regulations Pollution liability insurance EVET approval of contractor	• Std T&C 450 • Fact Sheet Series 17000 • Std T&C 660-3 • Approved Environmental Vendor List (Contact E/S Management)
Emergency response	Hazmat/waste release/spill firesafety emergency	• Fact Sheet Series 1700 • Building Emergency Operations Plan (EOP) (specific to and located on Premises)
Contract labor/outsourcing for services with environmental implications to be performed on BellSouth Premises (e.g., disposition of hazardous material/waste; maintenance of storage tanks)	Compliance with all applicable local, state, & federal laws and regulations Performance of services in accordance with BST's environmental M&Ps Insurance	• Std T&C 450 • Std T&C 450-B • (Contact E/S for copy of appropriate E/S M&Ps.) • Std T&C 660
Transportation of hazardous material	Compliance with all applicable local, state, & federal laws and regulations Pollution liability insurance EVET approval of contractor	• Std T&C 450 • Fact Sheet Series 17000 • Std T&C 660-3 • Approved Environmental Vendor List (Contact E/S Management)
Maintenance/operations work which may produce a waste- Other maintenance work	Compliance with all application local, state, & federal laws and regulations Protection of BST employees and equipment	• Std T&C 450 • 29CFR 1910.147 (OSHA Standard) • 29CFR 1910 Subpart O (OSHA Standard)
Janitorial services	All waste removal and disposal	• P&SM Manager -

	must conform to all applicable federal, state and local regulations All Hazardous Material and Waste Asbestos notification and protection of employees and equipment	Procurement • Fact Sheet Series 17000 • GU-BTEN-001BT, Chapter 3 • BSP 010-170-001BS (Hazcom)
Manhole cleaning	Compliance with all applicable local, state, & federal laws and regulations Pollution liability insurance EVET approval of contractor	• Std T&C 450 • Fact Sheet 14050 • BSP 620-145-011PR Issue A, August 1996 • Std T&C 660-3 • Approved Environmental Vendor List (Contact E/S Management)
Removing or disturbing building materials that may contain asbestos	Asbestos work practices	• GU-BTEN-001BT, Chapter 3

3. DEFINITIONS

Generator. Under RCRA, the person whose act produces a Hazardous Waste, as defined in 40 CFR 261, or whose act first causes a Hazardous Waste to become subject to regulation. The Generator is legally responsible for the proper management and disposal of Hazardous Wastes in accordance with regulations.

Hazardous Chemical. As defined in the U.S. Occupational Safety and Health (OSHA) hazard communication standard (29 CFR 1910.1200), any chemical which is a health hazard or physical hazard.

Hazardous Waste. As defined in section 1004 of RCRA.

Imminent Danger. Any conditions or practices at a facility which are such that a danger exists which could reasonably be expected to cause immediate death or serious harm to people or immediate significant damage to the environment or natural resources.

Spill or Release. As defined in Section 101 of CERCLA.

4. ACRONYMS

E/S – Environmental/Safety

EVET - Environmental Vendor Evaluation Team

DEC/LDEC - Department Environmental Coordinator/Local Department Environmental Coordinator

GU-BTEN-001BT - BellSouth Environmental Methods and Procedures

NESC - National Electrical Safety Codes

P&SM - Property & Services Management

Std. T&C - Standard Terms & Conditions

Attachment 5

Access to Numbers and Number Portability

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Rates ..... Exhibit A

ACCESS TO NUMBERS AND NUMBER PORTABILITY

1. Non-Discriminatory Access to Telephone Numbers

All the negotiated rates, terms and conditions set forth in this Attachment pertain to the provisioning of local number portability.

1.1 During the term of this Agreement, Global Crossing shall contact the North American Numbering Plan Administrator, Neustar, for the assignment of numbering resources. In order to be assigned a Central Office Code, Global Crossing will be required to complete the Central Office Code (NXX) Assignment Request and Confirmation Form (Code Request Form) in accordance with Industry Numbering Committee's Central Office Code (NXX) Assignment Guidelines (INC 95-0407-008).

1.2 For the purposes of the resale of BellSouth's telecommunications services by Global Crossing, BellSouth will provide Global Crossing with on line access to telephone numbers for reservation on a first come first served basis. Such reservations of telephone numbers, on a pre-ordering basis shall be for a period of ninety (90) days. Global Crossing acknowledges that there may be instances where there is a shortage of telephone numbers in a particular CLLIC and in such instances BellSouth may request that Global Crossing cancel its reservations of numbers. Global Crossing shall comply with such request.

1.3. Further, upon Global Crossing request and for the purposes of the resale of BellSouth's telecommunications services by Global Crossing, BellSouth will reserve up to 100 telephone numbers per Common Language Location Identifier Code (CLLIC), for Global Crossing's sole use. Such telephone number reservations shall be transmitted to Global Crossing via electronic file transfer. Such reservations shall be valid for ninety (90) days from the reservation date. Global Crossing acknowledges that there may be instances where there is a shortage of telephone numbers in a particular CLLIC and in such instances BellSouth shall use its best efforts to reserve for a ninety (90) day period a sufficient quantity for Global Crossing's reasonable need in that particular CLLIC.

2. Number Portability Permanent Solution

2.1 The FCC, the Commissions, and industry forums have developed and BellSouth is implementing a permanent approach to providing service provider number portability. Both Parties will implement a permanent approach as developed and approved by the Commission, the FCC and industry forums. Consistent with the requirements to move to Permanent Number Portability (PNP) as set forth in Section 5 of this Attachment, Interim Service Provider Number Portability (SPNP) may be available only until such permanent solution is implemented in an end office.

2.2 End User Line Charge. Recovery of charges associated with implementing PNP through a monthly charge assessed to end users has been authorized by the FCC. This end user line charge will be as filed in FCC No. 1 and will be billed to Global Crossing where Global Crossing is a subscriber to local switching or where Global Crossing is a reseller of BellSouth telecommunications services. This charge will not be discounted.

3. Service Provider Number Portability

3.1 Definition. Until the industry-wide permanent solution is implemented in an end office, BellSouth shall provide Service Provider Number Portability ("SPNP"). SPNP is an interim service arrangement whereby an end user who switches subscription of his local exchange service from BellSouth to a CLEC, or vice versa, is permitted to retain the use of his existing assigned telephone number, provided that the end user remains at the same location for his local exchange service or changes locations and service providers but stays within the same serving wire center of his existing number.

3.2 Methods of Providing Number Portability. SPNP is available through either remote call forwarding or direct inward dialing trunks, at the election of Global Crossing. Remote call forwarding (SPNP-RCF) is an existing switch-based BellSouth service that redirects calls within the telephone network. Direct inward dialing trunks (SPNP-DID) allow calls to be routed over a dedicated facility to the Global Crossing switch that serves the subscriber.

3.3 Signaling Requirements. SS7 Signaling is required for the provision of SPNP services. SPNP-DID is available from BellSouth on a per DS0, DS1, or DS3 basis. Where SPNP-DID is technically feasible and is provided on a DS1 or a DS3 basis, the applicable channelization rates are those specified in Section E6 in BellSouth's Intrastate Access Tariffs, incorporated herein by this reference. SPNP is available only for basic local exchange service.

3.4 Rates

Rates for SPNP are set out in Exhibit A to this Attachment. If no rate is identified in the Attachment, the rate for the specific service or function will be as set forth in applicable BellSouth tariff or as negotiated by the Parties upon request by either Party.

4. SPNP Implementation

4.1 SPNP is available only where a CLEC or BellSouth is currently providing, or will begin providing concurrent with provision of SPNP, basic local exchange service to the affected end user. SPNP for a particular telephone number is available only from the central office originally providing local exchange service to the end user. SPNP for a particular assigned telephone number will be disconnected when any end user, Commission, BellSouth, or CLEC initiated activity (*e.g.*, a change in exchange

boundaries) would normally result in a telephone number change had the end user retained his initial local exchange service.

4.2 SPNP-RCF, as contemplated by this Agreement, is a telecommunications service whereby a call dialed to an SPNP-RCF equipped telephone number is automatically forwarded to an assigned seven- or ten- digit telephone number within the local calling area as defined in BellSouth's General Subscriber Services Tariff. The forwarded-to number shall be specified by the CLEC or BellSouth, as appropriate. The forwarding Party will provide identification of the originating telephone number, via SS7 signaling, to the receiving Party. Identification of the originating telephone number to the SPNP-RCF end user cannot be guaranteed, however. SPNP-RCF provides a single call path for the forwarding of no more than one simultaneous call to the receiving Party's specified forwarded-to number.

4.3 SPNP-DID service, as contemplated by this Agreement, provides trunk side access to end office switches for direct inward dialing to the other Party's premises equipment from the telecommunications network to lines associated with the other Party's switching equipment and must be provided on all trunks in a group arranged for inward service. A SPNP-DID trunk termination charge, provided with SS7 Signaling only, applies for each trunk voice grade equivalent. In addition, direct facilities are required from the end office where a ported number resides to the end office serving the ported end user customer. The rates for a switched local channel and switched dedicated transport apply as contained in BellSouth's Intrastate Access Services tariff, as said tariff is amended from time to time. Transport mileage will be calculated as the airline distance between the end office where the number is ported and the Point of Interface ("POI") using the V&H coordinate method. SPNP-DID must be established with a minimum configuration of two channels and one unassigned telephone number per switch, per arrangement for control purposes. Transport facilities arranged for SPNP-DID may not be mixed with any other type of trunk group, with no outgoing calls placed over said facilities. SPNP-DID will be provided only where such facilities are available and where the switching equipment of the ordering Party is properly equipped. Where SPNP-DID service is required from more than one wire center or from separate trunk groups within the same wire center, such service provided from each wire center or each trunk group within the same wire center shall be considered a separate service. Only customer-dialed sent-paid calls will be completed to the first number of a SPNP-DID number group; however, there are no restrictions on calls completed to other numbers of a SPNP-DID number group. Sent-paid calls refer to those calls placed by an end user who physically deposits currency in a public telephone. Interface group arrangements provided for terminating the switched transport at the Party's terminal location are as set forth in of BellSouth's Intrastate Access Services Tariff, § E6.1.3.A as amended from time to time.

4.3.1 SPNP-DID Service requires ordering consecutive telephone numbers in blocks of twenty. To order non-consecutive telephone numbers or telephone numbers in less

than blocks of twenty, the NBR process must be used. SS7 Signaling is required for the provision of either of these services.

4.4 The calling Party shall be responsible for payment of the applicable charges for sent-paid calls to the SPNP number. For collect, third-party, or other operator-assisted non-sent paid calls to the ported telephone number, BellSouth or the CLEC shall be responsible for the payment of charges under the same terms and conditions for which the end user would have been liable for those charges. Either Party may request that the other block collect and third party non-sent paid calls to the SPNP-assigned telephone number. If a Party does not request blocking, the other Party will provide itemized local usage detail for the billing of non-sent paid calls on the monthly bill of usage charges provided at the individual end user account level. The detail will include itemization of all billable usage. Each Party shall have the option of receiving this usage data on a daily basis via a data file transfer arrangement. This arrangement will utilize the existing industry uniform standard, known as EMR standards, for exchange of billing data. Files of usage data will be created daily for the optional service. Usage originated and recorded in the sending BellSouth RAO will be provided in unrated or rated format, depending on processing system. CLEC usage originated elsewhere and delivered via CMDS to the sending BellSouth RAO shall be provided in rated format.

4.5 Each Party shall be responsible for obtaining authorization from the end user for the handling of the disconnection of the end user's service, the provision of new local service and the provision of SPNP services. Each Party shall be responsible for coordinating the provision of service with the other to assure that its switch is capable of accepting SPNP ported traffic. Each Party shall be responsible for providing equipment and facilities that are compatible with the other's service parameters, interfaces, equipment and facilities and shall be required to provide sufficient terminating facilities and services at the terminating end of an SPNP call to adequately handle all traffic to that location and shall be solely responsible to ensure that its facilities, equipment and services do not interfere with or impair any facility, equipment, or service of the other Party or any of its end users. In the event that either Party determines in its reasonable judgment that the other Party will likely impair or is impairing, or interfering with any equipment, facility or service or any of its end users, that Party may either refuse to provide SPNP service or may terminate SPNP service to the other Party after providing appropriate notice.

4.6 Each Party shall be responsible for providing an appropriate intercept announcement service for any telephone numbers subscribed to SPNP services for which it is not presently providing local exchange service or terminating to an end user. Where either Party chooses to disconnect or terminate any SPNP service, that Party shall be responsible for designating the preferred standard type of announcement to be provided.

4.7 Each Party shall be the other Party's single point of contact for all repair calls on behalf of each Party's end user. Each Party reserves the right to contact the other Party's customers if deemed necessary for maintenance purposes.

4.8 Neither Party shall be responsible for adverse effects on any service, facility or equipment from the use of SPNP services. End-to-end transmission characteristics may vary depending on the distance and routing necessary to complete calls over SPNP facilities and the fact that another carrier is involved in the provisioning of service. Therefore, end-to-end transmission characteristics cannot be specified by either Party for such calls. Neither Party shall be responsible to the other if any necessary change in protection criteria or in any of the facilities, operation, or procedures of either renders any facilities provided by the other Party obsolete or renders necessary modification of the other Party's equipment.

4.9 For terminating IXC traffic ported to either Party which requires use of either Party's tandem switching, the tandem provider will bill the IXC tandem switching, the interconnection charge, and a portion of the transport, and the other Party will bill the IXC local switching, the carrier common line and a portion of the transport. If the tandem provider is unable to provide the necessary access records to permit the other Party to bill the IXC directly for terminating access to ported numbers, then the tandem provider will bill the IXC full terminating switched access charges at the tandem provider's rate and will compensate the other Party at the tandem Party's tariff rates via a process used by BellSouth to estimate the amount of ported switched access revenues due the other Party. If an intraLATA toll call is delivered, the delivering Party will pay terminating access rates to the other Party. This subsection does not apply in cases where SPNP-DID is utilized for number portability.

5. Transition to Permanent Number Portability

5.1 Once a PNP is implemented in an end office both Parties must withdraw their SPNP offerings. The transition from existing SPNP arrangements to PNP shall occur within one hundred twenty (120) days from the date PNP is implemented in the end office. Neither Party shall charge the other Party for conversion from SPNP to PNP. The Parties shall comply with any SPNP/PNP transition processes established by the FCC and State commissions and appropriate industry number portability work groups.

5.2 Notwithstanding the foregoing, the Parties acknowledge that the FCC has determined once LNP has been deployed pursuant to the FCC's orders, rules and regulations, that all local exchange carriers (LECs) have the duty to provide LNP. Therefore, either Party, at any time, may seek appropriate legal or regulatory relief concerning the transition from INP to LNP or other related issues.

6. True-up

This section applies only to North Carolina and Tennessee and other rates that are interim or expressly subject to true-up under this attachment.

6.1 The interim prices for Network Elements and Other Services and Local Interconnection shall be subject to true-up according to the following procedures:

The interim prices shall be trued-up, either up or down, based on final prices determined either by further agreement between the Parties, or by a final order (including any appeals) of the Commission which final order meets the criteria of (3) below. The Parties shall implement the true-up by comparing the actual volumes and demand for each item, together with interim prices for each item, with the final prices determined for each item. Each Party shall keep its own records upon which the true-up can be based, and any final payment from one Party to the other shall be in an amount agreed upon by the Parties based on such records. In the event of any disagreement as between the records or the Parties regarding the amount of such true-up, the Parties agree that the body having jurisdiction over the matter shall be called upon to resolve such differences, or the Parties may mutually agree to submit the matter to the Dispute Resolution process in accordance with the provisions in the General Terms and Conditions and Attachment 1 of this Agreement.

6.2 The Parties may continue to negotiate toward final prices, but in the event that no such agreement is reached within nine (9) months, either Party may petition the Commission to resolve such disputes and to determine final prices for each item. Alternatively, upon mutual agreement, the Parties may submit the matter to the Dispute Resolution Process set forth in the General Terms and Conditions and Attachment 1 of the Agreement incorporated herein by reference, so long as they file the resulting Agreement with the Commission as a "negotiated Agreement" under Section 252(e) of the Act.

6.3 A final order of this Commission that forms the basis of a true-up shall be the final order as to prices based on appropriate cost studies, or potentially may be a final order in any other Commission proceeding which meets the following criteria:

(a) BellSouth and CLEC is entitled to be a full Party to the proceeding;
(b) It shall apply the provisions of the federal Telecommunications Act of 1996, including but not limited to Section 252(d)(1) (which contains pricing standards) and all then-effective implementing rules and regulations; and,
(c) It shall include as an issue the geographic deaveraging of network element prices, which deaveraged prices, if any are required by said final order, shall form the basis of any true-up.

7. Operational Support System (OSS) Rates

BellSouth has developed and made available the following mechanized systems by which Global Crossing may submit LSRs electronically.

LENS	Local Exchange Navigation System
EDI	Electronic Data Interchange
TAG	Telecommunications Access Gateway

LSRs submitted by means of one of these interactive interfaces will incur an OSS electronic ordering charge as specified in the table below. An individual LSR will be identified for billing purposes by its Purchase Order Number (PON). LSRs submitted by means other than one of these interactive interfaces (mail, fax, courier, etc.) will incur a manual order charge as specified in the table below:

OPERATIONAL SUPPORT SYSTEMS	AL, GA, LA, MS, SC	FL, KY, NC, TN
OSS **LSR** charge, per LSR received from the CLEC by one of the OSS interactive interfaces	$3.50 SOMEC	$3.50 SOMEC
Incremental charge per LSR received from the CLEC by means other than one of the OSS interactive interfaces	See applicable rate element	$19.99 SOMAN

Note: In addition to the OSS charges, applicable discounted service order and related discounted charges apply per the tariff.

Denial/Restoral OSS Charge

In the event Global Crossing provides a list of customers to be denied and restored, rather than an LSR, each location on the list will require a separate PON and, therefore will be billed as one LSR per location.

Cancellation OSS Charge

Global Crossing will incur an OSS charge for an accepted LSR that is later canceled by Global Crossing.

Note: Supplements or clarifications to a previously billed LSR will not incur another OSS charge.

Network Elements and Other Services Manual Additive

The Commissions in Alabama, Georgia, Louisiana, Mississippi and South Carolina have ordered incremental manual non-recurring charges (NRC) for network elements and other services ordered by means other than one of the interactive interfaces. These ordered network elements and other services manual additive NRCs will apply in these states, rather than the charge per LSR.

Threshold Billing Plan

The Parties agree that Global Crossing will incur the mechanized rate for all LSRs, both mechanized and manual, if the percentage of mechanized LSRs to total LSRs meets or exceeds the threshold percentages shown below:

Year	Ratio: Mechanized/Total LSRs
2000	80%
2001	90%

The threshold plan will be discontinued in 2002.

BellSouth will track the total LSR volume for each CLEC for each quarter. At the end of that time period, a Percent Electronic LSR calculation will be made for that quarter based on the LSR data tracked in the LCSC. If this percentage exceeds the threshold volume, all of that CLECs' future manual LSRs will be billed at the mechanized LSR rate. To allow time for obtaining and analyzing the data and updating the billing system, this billing change will take place on the first day of the second month following the end of the quarter (e.g. May 1 for 1Q, Aug 1 for 2Q, etc.). There will be no adjustments to the amount billed for previously billed LSRs.

BELLSOUTH/GLOBAL CROSSING RATES
SERVICE PROVIDER
NUMBER PORTABILITY

DESCRIPTION	USOC	RATES BY STATE								
		AL	FL	GA	KY	LA	MS	NC	SC	TN
INTERIM SERVICE PROVIDER NUMBER PORTABILITY										
RCF, per number ported (Business Line), 10 paths	TNPBL	NA	NA	NA	NA	NA	NA	$2 25	NA	NA
RCF, per number ported (Residence Line), 6 paths	TNPRL	NA	NA	NA	NA	NA	NA	$1 15	NA	NA
RCF, per number ported (Business Line)	TNPBL	$2 13	NA	$2 03	NA	$2 29	$2 34	$1 66	$2 17	$1 50
NRC - Electronic	TNPBL	$0 66	NA	$0 51	NA	$0 49	$0 6441	$0 71	$0 7046	NA
NRC - Disconnect Charge	TNPBL	$0 07	NA	NA	NA	$0 06	$0 0644	$0 50	NA	NA
RCF, per number ported (Residence Line)	TNPRL	$2 13	NA	$2 03	NA	$2 29	$2 34	$1 66	$2 17	$1 25
NRC	TNPRL	$0 66	NA	$0 51	NA	$0 49	$0 6441	$0 71	$0 7046	NA
NRC - Disconnect Charge	TNPRL	$0 07	NA	NA	NA	$0 06	$0 0644	$0 50	NA	NA
RCF, add'l capacity for simultaneous call forwarding, per additional path	N/A	$0 32	NA	$0 2835	NA	$0 38	$0 3838	$0 32	$0 3854	$0 50
RCF, per service order, per location	(++) Bus = TNPBD Res = TNPRD									
NRC - 1st	TNP++	$1 44	NA	$2 10	NA	$2 02	$2 84	$2 73	$1 37	$25 00
NRC - Add'l	TNP++	$1 44	NA	$2 10	NA	$2 02	$2 84	$2 73	$1 37	$25 00
NRC - Disconnect - 1st	TNP++	$1 44	NA	NA	NA	$2 01	$2 84	NA	NA	NA
NRC - Disconnect - Add'l	TNP++	$1 44	NA	NA	NA	$2 01	$2 84	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	NA	NA	$18 14	$25 52	$45 80	NA	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$27 37	NA	NA	NA	$18 14	$25 52	$45 80	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	$44 70	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - Add'l	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	$44 70	NA
DIRECTORY LISTINGS										
DID per number ported, Residence - NRC	TNPDR	$1 18	NA	$0 93	NA	$0 89	$1 17	$2 25	$2 25	NA
DID per number ported, Residence - NRC - Disconnect	TNPDR	$1 18	NA	NA	NA	$0 90	$1 17	NA	NA	NA
DID per number ported, Business - NRC	TNPDB	$1 18	NA	$0 93	NA	$0 89	$1 17	$2 25	$2 25	NA
DID per number ported, Business - NRC - Disconnect	TNPDB	$1 18	NA	NA	NA	$0 90	$1 17	NA	NA	NA
DID per service order, per location										
NRC - 1st	TNPRD	$1 44	NA	$2 10	NA	$2 02	$2 84	$2 73	$1 37	NA
NRC - Add'l	TNPRD	$1 44	NA	$2 10	NA	$2 02	$2 84	$2 73	$1 37	NA
NRC - Disconnect - 1st	TNPRD	$1 44	NA	NA	NA	$2 01	$2 84	NA	$44 70	NA
NRC - Disconnect - Add'l	TNPRD	$1 44	NA	NA	NA	$2 01	$2 84	NA	$44 70	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	$27 37	NA	$18 94	NA	$18 14	$25 52	$45 80	NA	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	$27 37	NA	NA	NA	$18 14	$25 52	$45 80	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - 1st	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - Disconnect - Add'l	SOMAN	$17 77	NA	NA	NA	$11 41	$16 06	NA	NA	NA
DID, per trunk termination, Initial	TNPT2	$11 84	NA	$10 73	NA	$12 46	$13 78	$11 43	$13 16	NA
DID, per trunk termination, Initial - NRC	TNPT2	$173 73	NA	$135 47	NA	$129 59	$171 68	$217 88	$218 03	NA
DID, per trunk termination, Initial - Disconnect	TNPT2	$50 43	NA	NA	NA	$37 86	$49 86	NA	NA	NA
DID, per trunk termination, Subsequent	TNPT2	$11 84	NA	$10 73	NA	$12 46	$13 78	$11 43	$13 16	NA
DID, per trunk termination, Subsequent - NRC	TNPT2	$51 35	NA	$39 53	NA	$37 86	$50 69	$73 56	$73 63	NA
DID, per trunk termination, Subsequent - Disconnect	TNPT2	$26 00	NA	NA	NA	$18 76	$24 71	NA	NA	NA

NOTES:

If no rate is identified in the contract, the rate for the specific service or function will be as set forth in applicable BellSouth tariff or as negotiated by the Parties upon request by either Party

1 Until the FCC issues its order implementing a cost recovery mechanism for permanent number portability, the Company will track its costs of providing interim SPNP with sufficient detail to verify the costs This will facilitate the Florida PSCs consideration of the recovery of these costs in Docket 960737-TP (FL)

2 BellSouth and CLEC will each bear their own costs of providing remote call forwarding as an interim number portability option (KY)

Attachment 6

Ordering and Provisioning

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ORDERING AND PROVISIONING

1. Quality of Ordering and Provisioning

1.1 All the negotiated terms and conditions set forth in this Attachment pertain to ordering and provisioning.

1.2 BellSouth shall provide ordering and provisioning services to Global Crossing that are equal to the ordering and provisioning services BellSouth provides to itself or any other CLEC, where technically feasible. The guidelines for ordering and provisioning are set forth in BellSouth Ordering Guide for CLECs, the BellSouth Guide to Interconnection, and the Electronic Business Rules for Local Ordering and the Local Exchange Ordering Implementation Guide, as appropriate, and as they are amended from time to time during this Agreement. The guides may be referenced at the following site: http://www.interconnection.bellsouth.com/guides/guides_p.html.

1.3 BellSouth shall provide all ordering and provisioning services to Global Crossing during the same business hours of operation that BellSouth provisions service to its affiliates or end users. Ordering and provisioning support required by Global Crossing outside of these hours will be considered outside of normal business hours and will be subject to overtime billing.

1.4 All other Global Crossing requests for provisioning and installation services are considered outside of the normal hours of operation and may be performed subject to the application of overtime billing charges.

2. Access to Operations Support Systems

2.1 BellSouth shall provide Global Crossing access to operations support systems ("OSS") functions for pre-ordering, ordering and provisioning, maintenance and repair and billing. Access to theOSS is available through a variety of means, including electronic interfaces. BellSouth also provides manual options. The OSS functions available to CLECs through electronic interfaces are:

2.2 Pre-Ordering. BellSouth provides electronic access to the following pre-ordering functions: service address validation, telephone number selection, service and feature availability, due date information, and upon Commission approval of confidentiality protections, to customer record information. Access is provided through the Local Exchange Navigation System (LENS) interface the Telecommunications Access Gateway (TAG) interface. Customer record information includes Customer Record Information includes but is not limited to, customer specific information in CRIS and RSAG. In addition, Global Crossing shall provide to BellSouth access to customer record information including electronic access where available. Otherwise, Global

Crossing shall provide paper copies of customer record information within a reasonable period of time upon request by BellSouth. The parties agree not to view, copy, or otherwise obtain access to the customer record information of any customer without that customer's permission and further agrees that Global Crossing and BellSouth will obtain access to customer record information only in strict compliance with applicable laws, rules, or regulations of the State in which the service is provided.

2.3 Service Ordering and Provisioning. BellSouth provides electronic options for the exchange of ordering and provisioning information. BellSouth provides an Electronic Data Interchange (EDI) interface, the TAG ordering interface for non-complex and certain complex resale requests and certain network elements. The EDI interface can be integrated with the TAG pre-ordering interface by Global Crossingor the TAG ordering interface. BellSouth provides integrated pre-ordering, ordering and provisioning capability through the LENS interface for non-complex and certain complex resale service requests.

2.4 Service Trouble Reporting and Repair. Service trouble reporting and repair allows Global Crossing to report and monitor service troubles and obtain repair services. BellSouth shall offer Global Crossing service trouble reporting in a non-discriminatory manner that provides Global Crossing the equivalent ability to report and monitor service troubles that BellSouth provides to itself. BellSouth also provides Global Crossing an estimated time to repair, an appointment time or a commitment time, as appropriate, on trouble reports. BellSouth provides several options for electronic trouble reporting. For exchange services, BellSouth offers Global Crossing non-discriminatory access to the Trouble Analysis Facilitation Interface (TAFI). In addition, BellSouth offers an industry standard, machine-to-machine Electronic Communications Trouble Administration (ECTA) Gateway interface. For designed services, BellSouth provides non-discriminatory trouble reporting ECTA Gateway. BellSouth also offers ECTA functionality through the human-to-machine EC-CPM/TA interface. If the CLEC requests BellSouth to repair a trouble after normal working hours, the CLEC will be billed the appropriate overtime charges associated with this request pursuant to BellSouth's tariffs.

2.5 Change Management. BellSouth provides a collaborative process for change management of the electronic interfaces through the Electronic Interface Change Control Process ("EICCP). Guidelines for this process are set forth in the EICCP document, and as it is amended from time to time during this agreement.

2.6 Migration of Global Crossing to New Software Releases for National Standard Machine-to-Machine Electronic Interfaces. Pursuant to the change management process, BellSouth will issue new software releases for new industry standards for its industry standard, machine-to-machine electronic interfaces. When a new release of new industry standards is implemented, BellSouth will continue to support both the new release (N) and the prior release (N-1). When BellSouth makes the next release (N+1), BellSouth will eliminate support for the (N-1) release and support the two

newest releases (N and N+1). Thus, BellSouth will always support the two most current releases. BellSouth will issue documents to Global Crossing with sufficient notice to allow Global Crossing to make the necessary changes to their systems and operations to migrate to the newest release in a timely fashion.

2.7 Rates. All costs incurred by BellSouth to develop and implement operational interfaces to the OSS shall be recovered from the carriers that use the services. Charge for use of OSS shall be as set forth in Attachments 1 and 2 of this Agreement.

3. Miscellaneous Ordering and Provisioning Guidelines

3.1 Pending Orders. To ensure the most efficient use of facilities and resources, orders placed in the hold or pending status by Global Crossing will be held for a maximum of thirty (30) days from the date the order is placed on hold. After such time, if Global Crossing wishes to reinstate an order, Global Crossing may be required to submit a new service order.

3.2 Single Point of Contact. Global Crossing will be the single point of contact with BellSouth for ordering activity for network elements and other services used by Global Crossing to provide services to its end users, except that BellSouth may accept an order directly from another CLEC, or BellSouth, acting with authorization of the affected end user. Global Crossing and BellSouth shall each execute a blanket letter of authorization with respect to customer orders. The Parties shall each be entitled to adopt their own internal processes for verification of customer authorization for orders, provided, however, that such processes shall comply with applicable state and federal law including, until superseded, the FCC guidelines and orders applicable to Presubscribed Interexchange Carrier (PIC) changes including Un-PIC. Pursuant to such an order, BellSouth may disconnect any network element associated with the service to be disconnected and being used by Global Crossing to provide service to that end user and reuse such network elements or facilities to enable such other LEC to provide service to the end user. BellSouth will notify Global Crossing that such an order has been processed, but will not be required to notify Global Crossing in advance of such processing.

3.3 Use of Facilities. When a customer of a CLEC elects to discontinue service and transfer service to another local exchange carrier, including BellSouth, BellSouth shall have the right to reuse the facilities provided to CLEC by BellSouth for retail or resale service, loop and/or port for that customer. In addition, BellSouth may disconnect and reuse facilities when the facility is in a denied state and BellSouth has received an order to establish new service or transfer of service from a customer or a customer's CLEC at the same address served by the denied facility.

3.3.1 Upon receipt of a service order, BellSouth will do the following:

3.3.1.1 Process disconnect and reconnect orders to provision the service which shall be due dated using current interval guidelines.

3.3.1.2 Reuse the serving facility for the retail, resale service, or network element at the same location.

3.3.1.3 Notify Global Crossing after the disconnect order has been completed.

3.4 Contact Numbers. The Parties agree to provide one another with toll-free contact numbers for the purpose of ordering, provisioning and maintenance of services.

3.5 Subscription Functions. In cases where BellSouth performs subscription functions for an inter-exchange carrier (i.e. PIC and LPIC changes via Customer Account Record Exchange (CARE)), BellSouth will provide the affected inter-exchange carriers with the Operating Company Number (OCN) of the local provider for the purpose of obtaining end user billing account and other end user information required under subscription requirements.

3.6 Cancellation Charges. If Global Crossing cancels an order for network elements or other services, any costs incurred by BellSouth in conjunction with the provisioning of that order will be recovered in accordance with FCC No. 1 Tariff, Section 5.4.

Attachment 7

Billing and Billing Accuracy Certification

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Rates ..... **Exhibit A**

BILLING AND BILLING ACCURACY CERTIFICATION

1. **Payment and Billing Arrangements**

All negotiated rates, terms and conditions set forth in this Attachment pertain to billing and billing accuracy certifications.

1.1 Billing. BellSouth agrees to provide billing through the Carrier Access Billing System (CABS) and through the Customer Records Information System (CRIS) depending on the particular service(s) that Global Crossing requests. BellSouth will bill and record in accordance with this Agreement those charges Global Crossing incurs as a result of Global Crossing purchasing from BellSouth Network Elements and Other Services as set forth in this Agreement. BellSouth will format all bills in CBOS Standard or CLUB/EDI format, depending on the type of service ordered. For those services where standards have not yet been developed, BellSouth's billing format will change as necessary when standards are finalized by the industry forum.

1.1.1 For any service(s) BellSouth orders from Global Crossing, Global Crossing shall bill BellSouth in CABS format.

1.1.2 If either Party requests multiple billing media or additional copies of bills, the Billing Party will provide these at a reasonable cost.

1.2 Master Account. After receiving certification as a local exchange company from the appropriate regulatory agency, Global Crossing will provide the appropriate BellSouth account manager the necessary documentation to enable BellSouth to establish a master account for Local Interconnection, Network Elements and Other Services, and/or resold services. Such documentation shall include the Application for Master Account, proof of authority to provide telecommunications services, an Operating Company Number ("OCN") assigned by the National Exchange Carriers Association ("NECA"), Carrier Identification Code (CIC), Group Access Code (GAC), Access Customer Name and Address (ACNA) and a tax exemption certificate, if applicable.

1.3 Payment Responsibility. Payment of all charges will be the responsibility of Global Crossing. Global Crossing shall make payment to BellSouth for all services billed. BellSouth is not responsible for payments not received by Global Crossing from Global Crossing's customer. BellSouth will not become involved in billing disputes that may arise between Global Crossing and Global Crossing's customer. Payments made to BellSouth as payment on account will be credited to an accounts receivable master account and not to an end user's account.

1.4 Payment Due. The payment will be due on or before the next bill date (i.e., same date in the following month as the bill date) and is payable in immediately available funds. Payment is considered to have been made when received by BellSouth.

If the payment due date falls on a Sunday or on a Holiday which is observed on a Monday, the payment due date shall be the first non-Holiday day following such Sunday or Holiday. If the payment due date falls on a Saturday or on a Holiday which is observed on Tuesday, Wednesday, Thursday, or Friday, the payment due date shall be the last non-Holiday day preceding such Saturday or Holiday. If payment is not received by the payment due date, a late payment penalty, as set forth in Section 1.7, below, shall apply.

1.5 Tax Exemption. Upon proof of tax exempt certification from Global Crossing, the total amount billed to Global Crossing will not include those taxes or fees for which the CLEC is exempt. Global Crossing will be solely responsible for the computation, tracking, reporting and payment of all taxes and like fees associated with the services provided to the end user of Global Crossing.

1.6 Late Payment. If any portion of the payment is received by BellSouth after the payment due date as set forth preceding, or if any portion of the payment is received by BellSouth in funds that are not immediately available to BellSouth, then a late payment penalty shall be due to BellSouth. The late payment penalty shall be the portion of the payment not received by the payment due date times a late factor and will be applied on a per bill basis. The late factor shall be as set forth in Section A2 of the General Subscriber Services Tariff, Section B2 of the Private Line Service Tariff or Section E2 of the Intrastate Access Tariff, whichever BellSouth determines is appropriate. Global Crossing will be charged a fee for all returned checks as set forth in Section A2 of the General Subscriber Services Tariff or pursuant to the applicable state law.

1.7 Discontinuing Service to Global Crossing. The procedures for discontinuing service to Global Crossing are as follows:

1.7.1 BellSouth reserves the right to suspend or terminate service for nonpayment of services or in the event of prohibited, unlawful or improper use of BellSouth facilities or service or any other violation or noncompliance by Global Crossing of the rules and regulations contained in BellSouth's tariffs.

1.7.2 If payment of account is not received by the bill date in the month after the original bill date, BellSouth may provide written notice to Global Crossing that additional applications for service will be refused and that any pending orders for service will not be completed if payment is not received by the fifteenth day following the date of the notice. In addition, BellSouth may, at the same time, give thirty (30)days notice to Global Crossing at the billing address to discontinue the provision of existing services to Global Crossing at any time thereafter.

1.7.3 In the case of such discontinuance, all billed charges, as well as applicable termination charges, shall become due.

1.7.4 If BellSouth does not discontinue the provision of the services involved on the date specified in the thirty days notice and Global Crossing's noncompliance continues, nothing contained herein shall preclude BellSouth's right to discontinue the provision of the services to Global Crossing without further notice.

1.7.5 If payment is not received or satisfactory arrangements made for payment by the date given in the written notification, Global Crossing's services will be discontinued. Upon discontinuance of service on Global Crossing's account, service to the Global Crossing's end users will be denied. BellSouth will reestablish service at the request of the end user or Global Crossing for BellSouth to reestablish service upon payment of the appropriate connection fee and subject to BellSouth's normal application procedures. Global Crossing is solely responsible for notifying the end user of the proposed service disconnection. If within fifteen (15) days after an end user's service has been denied and no arrangements to reestablish service have been made consistent with this subsection, the end user's service will be disconnected.

1.8 Deposit Policy. When purchasing services from BellSouth, Global Crossing will be required to complete the BellSouth Credit Profile and provide information regarding credit worthiness. Based on the results of the credit analysis, the Company reserves the right to secure the account with a suitable form of security deposit. Such security deposit shall take the form of cash, an Irrevocable Letter of Credit (BellSouth form), Surety Bond (BellSouth form) or, in its sole discretion, some other form of security. Any such security deposit shall in no way release Global Crossing from his obligation to make complete and timely payments of his bill. Such security shall be required prior to the inauguration of service. If, in the sole opinion of BellSouth, circumstances so warrant and/or gross monthly billing has increased beyond the level initially used to determine the level of security, the BellSouth reserves the right to request additional security and/or file a Uniform Commercial Code (UCC1) security interest in Global Crossing's "accounts receivables and proceeds." Interest on a security deposit, if provided in cash, shall accrue and be paid in accordance with the terms in the appropriate BellSouth tariff.

1.9 Rates. Rates for Optional Daily Usage File (ODUF), Enhanced Optional Daily Usage File (EODUF), Access Daily Usage File (ADUF), and Centralized Message Distribution Service (CMDS) are set out in Exhibit A to this Attachment. If no rate is identified in this Attachment, the rate for the specific service or function will be as set forth in applicable BellSouth tariff or as negotiated by the Parties upon request by either Party.

2. Billing Accuracy Certification

2.1 Upon request, BellSouth and Global Crossing will agree upon a billing quality assurance program for all billing elements covered in this Agreement that will eliminate the need for post-billing reconciliation. Appropriate terms for access to any

BellSouth documents, systems, records, and procedures for the recording and billing of charges will be part of that program.

2.2 As part of the billing quality assurance program, BellSouth and Global Crossing will develop standards, measurements, and performance requirements for a local billing measurements process. On a regular basis BellSouth will provide Global Crossing with mutually agreed upon performance measurement data that substantiates the accuracy, reliability, and integrity of the billing process for local billing. In return, Global Crossing will pay all bills received from BellSouth in full by the payment due date.

2.3 Local billing discrepancies will be addressed in an orderly manner via a mutually agreed upon billing exemption process.

2.3.1 Each Party agrees to notify the other Party upon identifying a billing discrepancy. The Parties shall endeavor to resolve any billing discrepancy within sixty (60) calendar days of the notification date. A mutually agreed upon escalation process will be established for resolving local billing discrepancies as part of the billing quality assurance program.

2.3.2 Closure of a specific billing period will occur by joint agreement of the Parties whereby the Parties agree that such billing period is closed to any further analysis and financial transactions except those resulting from regulatory mandates. Closure will take place within a mutually agreed upon time interval from the bill date. The month being closed represents those charges that were billed or should have been billed by the designated bill date.

3. Billing Disputes

3.1 Where the Parties have not agreed upon a billing quality assurance program, billing disputes shall be handled pursuant to the terms of this section.

3.1.1 Each Party agrees to notify the other Party in writing upon the discovery of a billing dispute. In the event of a billing dispute, the Parties will endeavor to resolve the dispute within sixty (60) calendar days of the notification date.

3.2 If a Party disputes a charge and does not pay such charge by the payment due date, or if a payment or any portion of a payment is received by either Party after the payment due date, or if a payment or any portion of a payment is received in funds which are not immediately available to the other Party, then a late payment penalty shall be assessed. For bills rendered by either Party for payment, the late payment charge for both Parties shall be calculated based on the portion of the payment not received by the payment due date times the late factor as set forth in the following BellSouth tariffs: for services purchased from the General Subscribers Services Tariff for

purposes of resale and for ports and non-designed loops, Section A2 of the General Subscriber Services Tariff; for services purchased from the Private Line Tariff for purposes of resale, Section B2 of the Private Line Service Tariff; and for network elements and other services and local interconnection charges, Section E2 of the Access Service Tariff. In no event, however, shall interest be assessed by either Party on any previously assessed late payment charges. The Parties shall assess interest on previously assessed late payment charges only in a state where it has the authority pursuant to its tariffs.

4. RAO Hosting

4.1 RAO Hosting, Calling Card and Third Number Settlement System (CATS) and Non-Intercompany Settlement System (NICS) services provided to Global Crossing by BellSouth will be in accordance with the methods and practices regularly adopted and applied by BellSouth to its own operations during the term of this Agreement, including such revisions as may be made from time to time by BellSouth.

4.2 Global Crossing shall furnish all relevant information required by BellSouth for the provision of RAO Hosting, CATS and NICS.

4.3 Compensation amounts, if applicable, will be billed by BellSouth to Global Crossing on a monthly basis in arrears. Amounts due from one Party to the other (excluding adjustments) are payable within thirty (30) days of receipt of the billing statement.

4.4 Global Crossing must have its own unique hosted RAO code. Requests for establishment of RAO status where BellSouth is the selected Centralized Message Distribution System (CMDS) interfacing host, require written notification from Global Crossingto the BellSouth RAO Hosting coordinator at least eight (8) weeks prior to the proposed effective date. The proposed effective date will be mutually agreed upon between the Parties with consideration given to time necessary for the completion of required Telcordia (formerly BellCore) functions. BellSouth will request the assignment of an RAO code from its connecting contractor, currently Telcordia (formerly BellCore), on behalf of Global Crossing and will coordinate all associated conversion activities.

4.5 BellSouth will receive messages from Global Crossing that are to be processed by BellSouth, another LEC or CLEC in the BellSouth region or a LEC outside the BellSouth region.

4.6 BellSouth will perform invoice sequence checking, standard EMI format editing, and balancing of message data with the EMI trailer record counts on all data received from Global Crossing.

4.7 All data received from Global Crossing that is to be processed or billed by another LEC or CLEC within the BellSouth region will be distributed to that LEC or CLEC in accordance with the Agreement(s) which may be in effect between BellSouth and the involved LEC or CLEC.

4.8 All data received from Global Crossing that is to be placed on the CMDS network for distribution outside the BellSouth region will be handled in accordance with the agreement(s) which may be in effect between BellSouth and its connecting contractor (currently Telcordia (formerly BellCore)).

4.9 BellSouth will receive messages from the CMDS network that are destined to be processed by Global Crossing and will forward them to Global Crossing on a daily basis.

4.10 Transmission of message data between BellSouth and Global Crossing will be via CONNECT:Direct.

4.11 All messages and related data exchanged between BellSouth and Global Crossing will be formatted in accordance with accepted industry standards for EMI formatted records and packed between appropriate EMI header and trailer records, also in accordance with accepted industry standards.

4.12 Global Crossing will ensure that the recorded message detail necessary to recreate files provided to BellSouth will be maintained for back-up purposes for a period of three (3) calendar months beyond the related message dates.

4.13 Should it become necessary for Global Crossing to send data to BellSouth more than sixty (60) days past the message date(s), Global Crossing will notify BellSouth in advance of the transmission of the data. If there will be impacts outside the BellSouth region, BellSouth will work with its connecting contractor and Global Crossing to notify all affected Parties.

4.14 In the event that data to be exchanged between the two Parties should become lost or destroyed, both Parties will work together to determine the source of the problem. Once the cause of the problem has been jointly determined and the responsible Party (BellSouth or Global Crossing) identified and agreed to, the company responsible for creating the data (BellSouth or Global Crossing) will make every effort to have the affected data restored and retransmitted. If the data cannot be retrieved, the responsible Party will be liable to the other Party for any resulting lost revenue. Lost revenue may be a combination of revenues that could not be billed to the end users and associated access revenues. Both Parties will work together to estimate the revenue amount based upon historical data through a method mutually agreed upon. The resulting estimated revenue loss will be paid by the responsible Party to the other Party within three (3) calendar months of the date of problem resolution, or as mutually agreed upon by the Parties.

4.15 Should-an error be detected by the EMI format edits performed by BellSouth on data received from Global Crossing, the entire pack containing the affected data will not be processed by BellSouth. BellSouth will notify Global Crossing of the error condition. Global Crossing will correct the error(s) and will resend the entire pack to BellSouth for processing. In the event that an out-of-sequence condition occurs on subsequent packs, Global Crossing will resend these packs to BellSouth after the pack containing the error has been successfully reprocessed by BellSouth.

4.16 In association with message distribution service, BellSouth will provide Global Crossing with associated intercompany settlements reports (CATS and NICS) as appropriate.

4.17 In no case shall either Party be liable to the other for any direct or consequential damages incurred as a result of the obligations set out in this Agreement.

4.18 RAO Compensation

4.18.1 Rates for message distribution service provided by BellSouth for Global Crossing are as set forth in Exhibit A to this Attachment.

4.18.2 Rates for data transmission associated with message distribution service are as set forth in Exhibit A to this Attachment .

4.18.3 Data circuits (private line or dial-up) will be required between BellSouth and Global Crossing for the purpose of data transmission. Where a dedicated line is required, Global Crossing will be responsible for ordering the circuit, overseeing its installation and coordinating the installation with BellSouth. Global Crossing will also be responsible for any charges associated with this line. Equipment required on the BellSouth end to attach the line to the mainframe computer and to transmit successfully ongoing will be negotiated on a case by case basis. Where a dial-up facility is required, dial circuits will be installed in the BellSouth data center by BellSouth and the associated charges assessed to Global Crossing. Additionally, all message toll charges associated with the use of the dial circuit by Global Crossing will be the responsibility of Global Crossing. Associated equipment on the BellSouth end, including a modem, will be negotiated on a case by case basis between the Parties.

4.18.4 All equipment, including modems and software, that is required on the Global Crossing end for the purpose of data transmission will be the responsibility of Global Crossing.

4.19 Intercompany Settlements Messages

4.19.1 This Section addresses the settlement of revenues associated with traffic originated from or billed by Global Crossing as a facilities based provider of local exchange telecommunications services outside the BellSouth region. Only traffic that originates in one Bell operating territory and bills in another Bell operating territory is included. Traffic that originates and bills within the same Bell operating territory will be settled on a local basis between Global Crossing and the involved company(ies), unless that company is participating in NICS.

4.19.2 Both traffic that originates outside the BellSouth region by Global Crossing and is billed within the BellSouth region, and traffic that originates within the BellSouth region and is billed outside the BellSouth region by Global Crossing, is covered by this Agreement (CATS). Also covered is traffic that either is originated by or billed by Global Crossing, involves a company other than Global Crossing, qualifies for inclusion in the CATS settlement, and is not originated or billed within the BellSouth region (NICS).

4.19.3 Once Global Crossing is operating within the BellSouth territory, revenues associated with calls originated and billed within the BellSouth region will be settled via Telcordia (formerly BellCore)'s, its successor or assign, NICS system.

4.19.4 BellSouth will receive the monthly NICS reports from Telcordia (formerly BellCore), its successor or assign, on behalf of Global Crossing. BellSouth will distribute copies of these reports to Global Crossingon a monthly basis.

4.19.5 BellSouth will receive the monthly Calling Card and Third Number Settlement System (CATS) reports from Telcordia (formerly BellCore), its successor or assign, on behalf of Global Crossing. BellSouth will distribute copies of these reports to Global Crossing on a monthly basis.

4.19.6 BellSouth will collect the revenue earned by Global Crossing from the Bell operating company in whose territory the messages are billed (CATS), less a per message billing and collection fee of five cents ($0.05), on behalf of Global Crossing. BellSouth will remit the revenue billed by Global Crossing to the Bell operating company in whose territory the messages originated, less a per message billing and collection fee of five cents ($0.05), on behalf on Global Crossing. These two amounts will be netted together by BellSouth and the resulting charge or credit issued to Global Crossing via a monthly Carrier Access Billing System (CABS) miscellaneous bill.

4.19.7 BellSouth will collect the revenue earned by Global Crossing within the BellSouth territory from another CLEC also within the BellSouth territory (NICS) where the messages are billed, less a per message billing and collection fee of five cents ($0.05), on behalf of Global Crossing. BellSouth will remit the revenue billed by Global Crossing within the BellSouth region to the CLEC also within the BellSouth region, where the messages originated, less a per message billing and collection fee of five

cents ($0.05). These two amounts will be netted together by BellSouth and the resulting charge or credit issued to Global Crossing via a monthly Carrier Access Billing System (CABS) miscellaneous bill.

BellSouth and Global Crossing agree that monthly netted amounts of less than fifty dollars ($50.00) will not be settled.

5. Optional Daily Usage File

5.1 Upon written request from Global Crossing, BellSouth will provide the Optional Daily Usage File (ODUF) service to Global Crossing pursuant to the terms and conditions set forth in this section.

5.2 The Global Crossing shall furnish all relevant information required by BellSouth for the provision of the Optional Daily Usage File.

5.3 The Optional Daily Usage Feed will contain billable messages that were carried over the BellSouth Network and processed in the BellSouth Billing System, but billed to a Global Crossing customer.

Charges for delivery of the Optional Daily Usage File will appear on the Global Crossings' monthly bills. The charges are as set forth in Exhibit A to this Attachment.

5.4 The Optional Daily Usage Feed will contain both rated and unrated messages. All messages will be in the standard Alliance for Telecommunications Industry Solutions (ATIS) EMI record format.

5.5 Messages that error in the billing system of the Global Crossing will be the responsibility of the Global Crossing. If, however, the Global Crossing should encounter significant volumes of errored messages that prevent processing by the Global Crossing within its systems, BellSouth will work with the Global Crossing to determine the source of the errors and the appropriate resolution.

5.6 The following specifications shall apply to the Optional Daily Usage Feed.

5.6.1 Usage To Be Transmitted

5.6.1.1 The following messages recorded by BellSouth will be transmitted to the Global Crossing:

- Message recording for per use/per activation type services (examples: Three Way Calling, Verify, Interrupt, Call Return, ETC.)
- Measured billable Local

- Directory Assistance messages
- IntraLATA Toll
- WATS & 800 Service

- N11
- Information Service Provider Messages
- Operator Services Messages
- Operator Services Message Attempted Calls (Network Element only)
- Credit/Cancel Records
- Usage for Voice Mail Message Service

5.6.1.2 Rated Incollects (originated in BellSouth and from other companies) can also be on Optional Daily Usage File. Rated Incollects will be intermingled with BellSouth recorded rated and unrated usage. Rated Incollects will not be packed separately.

5.6.1.3 BellSouth will perform duplicate record checks on records processed to Optional Daily Usage File. Any duplicate messages detected will be deleted and not sent to Global Crossing.

5.6.1.4 In the event that Global Crossing detects a duplicate on Optional Daily Usage File they receive from BellSouth, Global Crossing will drop the duplicate message (Global Crossing will not return the duplicate to BellSouth).

5.6.2 Physical File Characteristics

5.6.2.1 The Optional Daily Usage File will be distributed to Global Crossing via an agreed medium with CONNECT:Direct being the preferred transport method. The Daily Usage Feed will be a variable block format (2476) with an LRECL of 2472. The data on the Daily Usage Feed will be in a non-compacted EMI format (175 byte format plus modules). It will be created on a daily basis (Monday through Friday except holidays). Details such as dataset name and delivery schedule will be addressed during negotiations of the distribution medium. There will be a maximum of one dataset per workday per OCN.

5.6.2.2 Data circuits (private line or dial-up) may be required between BellSouth and Global Crossing for the purpose of data transmission. Where a dedicated line is required, Global Crossing will be responsible for ordering the circuit, overseeing its installation and coordinating the installation with BellSouth. Global Crossing will also be responsible for any charges associated with this line. Equipment required on the BellSouth end to attach the line to the mainframe computer and to transmit successfully ongoing will be negotiated on a case by case basis. Where a dial-up facility is required, dial circuits will be installed in the BellSouth data center by BellSouth and the associated charges assessed to Global Crossing. Additionally, all message toll charges associated with the use of the dial circuit by Global Crossing will be the responsibility of Global Crossing. Associated equipment on the BellSouth

end, including a modem, will be negotiated on a case by case basis between the Parties. All equipment, including modems and software, that is required on Global Crossing end for the purpose of data transmission will be the responsibility of Global Crossing.

5.6.3 Packing Specifications

5.6.3.1 A pack will contain a minimum of one message record or a maximum of 99,999 message records plus a pack header record and a pack trailer record. One transmission can contain a maximum of 99 packs and a minimum of one pack.

5.6.3.2 The OCN, From RAO, and Invoice Number will control the invoice sequencing. The From RAO will be used to identify to Global Crossing which BellSouth RAO that is sending the message. BellSouth and Global Crossing will use the invoice sequencing to control data exchange. BellSouth will be notified of sequence failures identified by Global Crossing and resend the data as appropriate.

The data will be packed using ATIS EMI records.

5.6.4 Pack Rejection

5.6.4.1 Global Crossing will notify BellSouth within one business day of rejected packs (via the mutually agreed medium). Packs could be rejected because of pack sequencing discrepancies or a critical edit failure on the Pack Header or Pack Trailer records (i.e. out-of-balance condition on grand totals, invalid data populated). Standard ATIS EMI Error Codes will be used. Global Crossing will not be required to return the actual rejected data to BellSouth. Rejected packs will be corrected and retransmitted to Global Crossing by BellSouth.

5.6.5 Control Data

Global Crossing will send one confirmation record per pack that is received from BellSouth. This confirmation record will indicate Global Crossing received the pack and the acceptance or rejection of the pack. Pack Status Code(s) will be populated using standard ATIS EMI error codes for packs that were rejected by Global Crossing for reasons stated in the above section.

5.6.6 Testing

5.6.6.1 Upon request from Global Crossing, BellSouth shall send test files to Global Crossing for the Optional Daily Usage File. The Parties agree to review and discuss the file's content and/or format. For testing of usage results, BellSouth shall request that Global Crossing set up a production (LIVE) file. The live test may consist of Global Crossing's employees making test calls for the types of services Global Crossing requests on the Optional Daily Usage File. These test calls are logged by Global

Crossing, and the logs are provided to BellSouth. These logs will be used to verify the files. Testing will be completed within 30 calendar days from the date on which the initial test file was sent.

6. **Access Daily Usage File**

6.1. Upon written request from Global Crossing, BellSouth will provide the Access Daily Usage File (ADUF) service to Global Crossing pursuant to the terms and conditions set forth in this section.

6.2 The Global Crossing shall furnish all relevant information required by BellSouth for the provision of the Access Daily Usage File.

6.3 The Access Daily Usage Feed will contain access messages associated with a port that Global Crossing has purchased from BellSouth

6.4 Charges for delivery of the Access Daily Usage File will appear on the Global Crossings' monthly bills. The charges are as set forth in Exhibit A to this Attachment. All messages will be in the standard Alliance for Telecommunications Industry Solutions (ATIS) EMI record format.

6.5 Messages that error in the billing system of the Global Crossing will be the responsibility of the Global Crossing. If, however, the Global Crossing should encounter significant volumes of errored messages that prevent processing by the Global Crossing within its systems, BellSouth will work with the Global Crossing to determine the source of the errors and the appropriate resolution.

6.6 Usage To Be Transmitted

6.6.1 The following messages recorded by BellSouth will be transmitted to Global Crossing:

Originating and terminating interstate and intrastate access records associated with a port.

Terminating access records for undetermined jurisdiction access records associated with a port.

6.6.2 When Global Crossing purchases Network Element ports from BellSouth and calls are made using these ports, BellSouth will handle the calls as follows:

Originating from Network Element and carried by Interexchange Carrier:

BellSouth will bill network element to CLEC and send

access record to the CLEC via ADUF

Originating from network element and carried by BellSouth (Global Crossing is BellSouth's toll customer):

BellSouth will bill resale toll rates to Global Crossing and send toll record for the end user toll billing purposes via ODUF (Optional Daily Usage File). Access record will be sent to Global Crossing via ADUF.

Terminating on network element and carried by Interexchange Carrier:

BellSouth will bill network element to Global Crossing and send access record to Global Crossing.

Terminating on network element and carried by BellSouth:

BellSouth will bill network element to Global Crossing and send access record to Global Crossing.

6.6.3 BellSouth will perform duplicate record checks on records processed to the Access Daily Usage File. Any duplicate messages detected will be dropped and not sent to Global Crossing.

6.6.4 In the event that Global Crossing detects a duplicate on the Access Daily Usage File they receive from BellSouth, Global Crossing will drop the duplicate message (Global Crossing will not return the duplicate to BellSouth.)

6.6.5 Physical File Characteristics

6.6.5.1 The Access Daily Usage File will be distributed to Global Crossing via an agreed medium with CONNECT:Direct being the preferred transport method. The Daily Usage Feed will be a fixed block format (2476) with an LRECL of 2472. The data on the Daily Usage Feed will be in a non-compacted EMI format (210 byte format plus modules). It will be created on a daily basis (Monday through Friday except holidays). Details such as dataset name and delivery schedule will be addressed during negotiations of the distribution medium. There will be a maximum of one dataset per workday per OCN.

6.6.5.2 Data circuits (private line or dial-up) may be required between BellSouth and Global Crossing for the purpose of data transmission. Where a dedicated line is required, Global Crossing will be responsible for ordering the circuit, overseeing its installation and coordinating the installation with BellSouth. Global Crossing will also be responsible for any charges associated with this line. Equipment required on the BellSouth end to attach the line to the mainframe computer and to transmit successfully ongoing will be negotiated on a case by case basis. Where a dial-up

facility is required, dial circuits will be installed in the BellSouth data center by BellSouth and the associated charges assessed to Global Crossing. Additionally, all message toll charges associated with the use of the dial circuit by Global Crossing will be the responsibility of Global Crossing. Associated equipment on the BellSouth end, including a modem, will be negotiated on a case by case basis between the Parties. All equipment, including modems and software, that is required on Global Crossing end for the purpose of data transmission will be the responsibility of Global Crossing.

6.6.6 Packing Specifications

6.6.6.1 A pack will contain a minimum of one message record or a maximum of 99,999 message records plus a pack header record and a pack trailer record. One transmission can contain a maximum of 99 packs and a minimum of one pack.

6.6.6.2 The OCN, From RAO, and Invoice Number will control the invoice sequencing. The From RAO will be used to identify to Global Crossing which BellSouth RAO that is sending the message. BellSouth and Global Crossing will use the invoice sequencing to control data exchange. BellSouth will be notified of sequence failures identified by Global Crossing and resend the data as appropriate.

The data will be packed using ATIS EMI records.

6.6.7 Pack Rejection

6.6.7.1 Global Crossing will notify BellSouth within one business day of rejected packs (via the mutually agreed medium). Packs could be rejected because of pack sequencing discrepancies or a critical edit failure on the Pack Header or Pack Trailer records (i.e. out-of-balance condition on grand totals, invalid data populated). Standard ATIS EMI Error Codes will be used. Global Crossing will not be required to return the actual rejected data to BellSouth. Rejected packs will be corrected and retransmitted to Global Crossing by BellSouth.

6.6.8 Control Data

Global Crossing will send one confirmation record per pack that is received from BellSouth. This confirmation record will indicate Global Crossing received the pack and the acceptance or rejection of the pack. Pack Status Code(s) will be populated using standard ATIS EMI error codes for packs that were rejected by Global Crossing for reasons stated in the above section.

6.6.9 Testing

6.6.9.1 Upon request from Global Crossing, BellSouth shall send test files to Global Crossing for the Access Daily Usage File. Testing shall consist of actual calls made from live

accounts. A call log shall be supplied along with test request information. The Parties agree to review and discuss the file's content and/or format.

7. Enhanced Optional Daily Usage File

7.1 Upon written request from Global Crossing, BellSouth will provide the Enhanced Optional Daily Usage File (EODUF) service to Global Crossing pursuant to the terms and conditions set forth in this section. EODUF will only be sent to existing ODUF subscribers who request the EODUF option.

7.2 The Global Crossing shall furnish all relevant information required by BellSouth for the provision of the Enhanced Optional Daily Usage File.

7.3 The Enhanced Optional Daily Usage File (EODUF) will provide usage data for local calls originating from resold Flat Rate Business and Residential Lines.

Charges for delivery of the Enhanced Optional Daily Usage File will appear on the Global Crossings' monthly bills. The charges are as set forth in Exhibit A to this Attachment.

7.4 All messages will be in the standard Alliance for Telecommunications Industry Solutions (ATIS) EMI record format.

7.5 Messages that error in the billing system of the Global Crossing will be the responsibility of the Global Crossing. If, however, the Global Crossing should encounter significant volumes of errored messages that prevent processing by the Global Crossing within its systems, BellSouth will work with the Global Crossing to determine the source of the errors and the appropriate resolution.

7.6 The following specifications shall apply to the Optional Daily Usage Feed.

7.6.1 Usage To Be Transmitted

7.6.1.1 The following messages recorded by BellSouth will be transmitted to the Global Crossing:

Customer usage data for flat rated local call originating from CLEC end user lines (1FB or 1FR). The EODUF record for flat rate messages will include:

Date of Call
From Number
To Number
Connect Time
Conversation Time

Method of Recording
From RAO
Rate Class
Message Type
Billing Indicators
Bill to Number

7.6.1.2 BellSouth will perform duplicate record checks on EODUF records processed to Optional Daily Usage File. Any duplicate messages detected will be deleted and not sent to Global Crossing.

7.6.1.3 In the event that Global Crossing detects a duplicate on Enhanced Optional Daily Usage File they receive from BellSouth, Global Crossing will drop the duplicate message (Global Crossing will not return the duplicate to BellSouth).

7.6.2 Physical File Characteristics

7.6.2.1 The Enhanced Optional Daily Usage Feed will be distributed to Global Crossing over their existing Optional Daily Usage File (ODUF) feed. The EODUF messages will be intermingled among Global Crossing's Optional Daily Usage File (ODUF) messages. The EODUF will be a variable block format (2476) with an LRECL of 2472. The data on the EODUF will be in a non-compacted EMI format (175 byte format plus modules). It will be created on a daily basis (Monday through Friday except holidays).

7.6.2.2 Data circuits (private line or dial-up) may be required between BellSouth and Global Crossing for the purpose of data transmission. Where a dedicated line is required, Global Crossing will be responsible for ordering the circuit, overseeing its installation and coordinating the installation with BellSouth. Global Crossing will also be responsible for any charges associated with this line. Equipment required on the BellSouth end to attach the line to the mainframe computer and to transmit successfully ongoing will be negotiated on a case by case basis. Where a dial-up facility is required, dial circuits will be installed in the BellSouth data center by BellSouth and the associated charges assessed to Global Crossing. Additionally, all message toll charges associated with the use of the dial circuit by Global Crossing will be the responsibility of Global Crossing. Associated equipment on the BellSouth end, including a modem, will be negotiated on a case by case basis between the Parties. All equipment, including modems and software, that is required on Global Crossing end for the purpose of data transmission will be the responsibility of Global Crossing.

7.6.3 Packing Specifications

7.6.3.1 A pack will contain a minimum of one message record or a maximum of 99,999 message records plus a pack header record and a pack trailer record. One transmission can contain a maximum of 99 packs and a minimum of one pack.

7.6.3.2 The Operating Company Number (OCN), From Revenue Accounting Office (RAO), and Invoice Number will control the invoice sequencing. The From RAO will be used to identify to Global Crossing which BellSouth RAO that is sending the message. BellSouth and Global Crossing will use the invoice sequencing to control data exchange. BellSouth will be notified of sequence failures identified by Global Crossing and resend the data as appropriate.

The data will be packed using ATIS EMI records.

BELLSOUTH/GLOBAL CROSSING RATES
ODUF/EDOUF/ADUF/CMDS

DESCRIPTION	USOC	RATES BY STATE								
		AL	FL	GA	KY	LA	MS	NC	SC	TN
ODUF: Recording, per message	N/A	$0.0002	$0.008	$0.008	$0.0008611	$0.00019	$0.0001179	$0.008	$0.0002862	$0.008
ODUF: Message Processing, per message	N/A	$0.0033	$0.004	$0.004	$0.0032357	$0.0024	$0.0032089	$0.004	$0.0032344	$0.004
EODUF: Message Processing, per message	N/A	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004
ADUF: Message Processing, per message	N/A	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004
CMDS: Message Processing, per message	N/A	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004	$0.004
ODUF: Message Processing, per magnetic tape provisioned	N/A	$55.19	$54.95	$54.95	$55.68	$47.30	$54.62	$54.95	$54.72	$54.95
EODUF: Message Processing, per magnetic tape provisioned	N/A	$47.30	$47.30	$47.30	$47.30	$47.30	$47.30	$47.30	$47.30	$47.30
ODUF: Data Transmission (CONNECT:DIRECT), per message	N/A	$0.00004	$0.001	$0.001	$0.0000365	$0.00003	$0.0000354	$0.001	$0.0000357	$0.001
EODUF: Data Transmission (CONNECT:DIRECT), per message	N/A	$0.0000364	$0.0000364	$0.0000364	$0.0000364	$0.0000364	$0.0000364	$0.0000364	$0.0000364	$0.0000364
ADUF: Data Transmission (CONNECT:DIRECT), per message	N/A	$0.001	$0.001	$0.001	$0.001	$0.001	$0.001	$0.001	$0.001	$0.001
CMDS: Data Transmission (CONNECT:DIRECT), per message	N/A	$0.001	$0.001	$0.001	$0.001	$0.001	$0.001	$0.001	$0.001	$0.001

NOTES:

If no rate is identified in the contract, the rate for the specific service or function will be as set forth in applicable BellSouth tariff or as negotiated by the parties upon request by either party

Attachment 8

Rights-of-Way, Conduits and Pole Attachments

Rights-of-Way, Conduits and Pole Attachments

BellSouth will provide nondiscriminatory access to any pole, duct, conduit, or right-of-way owned or controlled by BellSouth pursuant to 47 U.S.C. § 224, as amended by the Act, pursuant to terms and conditions of a license agreement subsequently negotiated with BellSouth's Competitive Structure Provisioning Center.

Attachment 9

Performance Measurements

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Service Performance Measurements And Enforcement Mechanisms

1. **Scope**

This Attachment includes Enforcement Measurements with corresponding Enforcement Mechanisms applicable to this Agreement.

2. **Reporting**

2.1 In providing services pursuant to this Agreement, BellSouth will report its performance to Global Crossing 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 this Attachment as Exhibit B.

2.2 BellSouth will make performance reports available to Global Crossing on a monthly basis. The reports will contain information collected in each performance category and will be available to Global Crossing 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 Global Crossing 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 of this Attachment each calendar quarter. BellSouth will not delete any Service Quality Measurement without prior written consent of Global Crossing. Global Crossing 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 ___ of the General Terms and Conditions of this Agreement, incorporated herein by reference.

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 of this Attachment, 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 Global Crossing. BellSouth will notify Global Crossing 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 ___ of the General Terms and Conditions of this Agreement, incorporated herein by reference.

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 Purpose

This section establishes meaningful and significant enforcement mechanisms voluntarily provided by BellSouth to verify and maintain compliance between BellSouth and Global Crossing'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.

4.2 Effective Date

The enforcement mechanisms set forth in this section shall only become effective upon an effective FCC order, which has not been stayed, authorizing BellSouth to provide interLATA telecommunications services under section 271 of the Act within a particular state and shall only apply

to BellSouth's performance in any state in which the FCC has granted BellSouth interLATA authority.

4.3 Definitions

4.3.1 Enforcement Measurement Elements means the performance measurements set forth in Exhibit B, attached hereto and incorporated herein by this reference.

4.3.2 Enforcement Measurement Benchmark means a competitive level of performance negotiated by BellSouth used to compare the performance of BellSouth and Global Crossing where no analogous process, product or service is feasible. See Exhibit B.

4.3.3 Enforcement Measurement Compliance means comparing performance levels provided to BellSouth retail customers with performance levels provided by BellSouth to the CLEC customer, as set forth in Exhibit C, attached hereto and incorporated herein by this reference.

4.3.4 Test Statistic and Balancing Critical Value is the means by which enforcement will be determine using statistically valid equations. See Exhibit C.

4.3.5 Cell 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 Global Crossing 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 Affected Volume means that proportion of the total Global Crossing volume or CLEC Aggregate volume for which remedies will be paid.

4.3.7 Parity Gap refers to the incremental departure from a compliant-level of service. (See Exhibit D). This is also referred to as "diff" in the Statistical paper (See Exhibit C).

4.3.8 Tier-1 Enforcement Mechanisms means self-executing liquidated damages paid directly to Global Crossing when BellSouth delivers non-compliant performance of any one of the Enforcement Measurement Elements for any month as calculated by BellSouth.

4.3.9 Tier-2 Enforcement Mechanisms 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 Tier-3 Enforcement Mechanisms 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 attached hereto 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 non-contractual legal and regulatory claims and remedies available to Global Crossing.

4.4.2 Proof of damages resulting from BellSouth's failure to maintain Enforcement Measurement Compliance would be difficult to ascertain and, therefore, liquidated damages are a reasonable approximation of any contractual damage. Liquidated damages under this provision are not intended to be a penalty.

4.5 Methodology

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 attached hereto as 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 attached hereto as 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 in a given calendar quarter based upon a statistically valid equation calculated by BellSouth utilizing BellSouth generated data. The method of calculation is attached hereto as 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 attached hereto as 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 a State 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 attached hereto 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 Global Crossing 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 (30^{th}) 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 Global Crossing the required amount, BellSouth will pay interest to Global Crossing at the maximum rate permitted by state law.

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 Global Crossing disputes the amount paid to Global Crossing for Tier-1 Enforcement Mechanisms, Global Crossing 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 Global Crossing written findings within thirty (30) days after receipt of the claim. If BellSouth determines Global Crossing is owed additional amounts, BellSouth shall pay Global Crossing such additional amounts within thirty (30) days after its findings along with interest paid at the maximum rate permitted by law.

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 Global Crossing 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 Global Crossing with reasonable notice of such acts or omissions and provide Global Crossing 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 non-compliance was the result of an act or omission by Global Crossing 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 Global Crossing that is contrary to any of its obligations under its Interconnection Agreement with BellSouth; an act or omission by Global Crossing that is contrary to any of its obligations under the Act, Commission rule, or state law; an act or omission associated with third-party systems or equipment; or any occurrence that results from an incident reasonably related to the Y2K problem.

4.7.4 It is not the intent of the Parties that BellSouth be liable for both Tier-2 Enforcement Mechanisms and any other assessments or sanctions imposed by the Commission. Global Crossing will not oppose any effort by BellSouth to set off Tier-2 Enforcement Mechanisms from any additional assessment imposed by the Commission.

4.7.5 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 Global Crossing shall release BellSouth for any liability associated with or related to the service performance measurement for the month for which the Enforcement Mechanisms was paid to Global Crossing.

4.7.6 Global Crossing 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 Global Crossing. Therefore, Global Crossing 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.

4.8 Enforcement Mechanism Caps

4.8.1 BellSouth's 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	
Regional Total - $625M	

4.8.2 If BellSouth's liability for the payment of Tier-1 and Tier-2 Enforcement Mechanisms exceed the caps referenced in this attachment, Global Crossing may commence a proceeding with the Commission to demonstrate why BellSouth should pay any amount in excess of the cap. Global Crossing 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.

EXHIBIT A

ORDERING

Report/Measurement:	
O-7. Speed of Answer in Ordering Center	
Definition:	
Measures the average time a customer is in queue.	
Exclusions:	
None	
Business Rules:	
The clock starts when the appropriate option is selected (i.e. 1 for Resale Consumer, 2 for Resale Multiline, and 3 for UNE-LNP, etc.) and the call enters the queue for that particular group in the LCSC. The clock stops when a 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 BSTs Local Carrier Service Center (LCSC) answers the CLEC call.	
Calculation:	
(Total time in seconds to reach the LCSC) / (Total Number of Calls) in the Reporting Period.	
Report Structure:	
• CLEC Aggregate • BST Aggregate (Combination of Residence Service Center and Business Service Center data under development)	
Level of Disaggregation:	
• CLEC Aggregate • BST Aggregate (Combination of Residence Service Center and Business Service Center data under development)	
Data Retained Relating to CLEC Experience:	**Data Retained Relating to BST Performance:**
• Mechanized tracking through LCSC Automatic Call Distributor	• Mechanized tracking through BST Retail center support systems
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: 02/16/00 (lg)

ORDERING – (LNP)

Report/Measurement:

LNP-8. 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.

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.

Business Rules:

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

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

- A Fatal Reject occurs when a CLEC attempts to electronically submit an LSR (via EDI or TAG) but required fields are not populated correctly and the request is returned to the CLEC.
  Fatal rejects are reported in a separate column, and for informational purposes ONLY. They are not considered in the calculation of the percent of total LSRs rejected or the total number of rejected LSRs.
- An Auto Clarification is a valid LSR which is electronically submitted (via EDI or TAG), but is rejected from LAUTO because it does not pass further edit checks for order accuracy. Auto Clarifications are returned without manual intervention.

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

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

Calculation

Percent Rejected Service Requests:
[(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: 02/16/00 (lg)

ORDERING – (LNP)

Report/Measurement:

LNP-9. Reject Interval Distribution & Average Reject Interval

Definition:

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

Exclusions:

- Service Requests canceled by 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.

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

Partially Mechanized: A valid LSR which is electronically submitted (via EDI or TAG), but cannot be processed electronically due to a CLEC error and "falls out" for manual handling. It is then put into "clarification", and sent back 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:
[Σ (Service Requests Rejected in "X" minutes/hours) / (Total Number of Service Requests Rejected in Reporting Period)] X 100

Report Structure:

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

ORDERING – (LNP) - Reject Interval Distribution & Average Reject Interval – Continued)

Level of Disaggregation:

- Reported in intervals = 0 - 4 minutes, 4 - 8 minutes, 8 - 12 minutes, 12 - 60 minutes, 0 - 1 hours, 1 - 8 hours, 8 - 24 hours, >24 hours
- Product Reporting Levels
  - LNP
  - UNE Loop with LNP
- Geographic Scope
  - State, Region
- Average Interval in Days

Retail Analog/Benchmark:

See Appendix D

Revision Date: 02/16/00 (lg)

ORDERING – (LNP)

Report/Measurement:

LNP-10. Firm Order Confirmation Timeliness Interval Distribution & Firm Order Confirmation Average Interval

Definition:

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

Exclusions:

- Rejected LSRs (Clarifications or 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.

Business Rules:

The Firm Order Confirmation interval is determined for each FOC'd LSR processed during the reporting period. The Firm Order Confirmation interval is the elapsed time from when BST receives an LSR until that LSR is confirmed 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 orders completed to produce the Firm Order Confirmation timeliness interval distribution.

- **Mechanized** - The elapsed time from receipt of a valid LSR until the LSR is processed and appropriate service orders are generated in SOCS without manual intervention.
- **Partially Mechanized** - The elapsed time from receipt of an eléctronically submitted LSR which falls out for manual handling by the LCSC personnel until appropriate service orders are issued by a BST service representative via Direct Order Entry (DOE) or Service Order Negotiation Generation System (SONGS).
- **Total Mechanized** - Combination of Fully Mechanized and Partially Mechanized FOCs.

Calculation:

Average FOC Interval:

Σ [(Date & Time of Firm Order Confirmation) - (Date & Time of Service Request Receipt)] / (Total number of Service Requests Confirmed in the Reporting Period)

FOC Interval Distribution:

Σ[(Service Requests Confirmed in "X" minutes/hours in the Reporting Period) / (Total Service Requests Confirmed in the Reporting Period)] X 100

Report Structure:

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

Level of Disaggregation:

- Reported in intervals = 0 - 15 minutes, 15 - 30 minutes, 30 - 45 minutes, 45 - 60 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 hours
- Product Reporting Levels
  - LNP
  - UNE Loop with LNP
- Geographic Scope
  - State, Region

Retail Analog/Benchmark:

See Appendix D

Revision Date: 02/16/00 (lg)

Provisioning Disaggregation

Product Reporting Levels

- Resale and Retail
  - Pots – Residence
  - Pots – Business
  - Design
  - PBX (Louisiana SQM)
  - CENTREX (Louisiana SQM)
  - ISDN (Louisiana SQM) (**NOTE**: ISDN included in POTS for Georgia Only)
  - ESSX (Louisiana SQM)

- Unbundled Network Elements
  - UNE Design
  - UNE Non – Design
  - UNE 2 Wire Loop (Louisiana SQM)
  - UNE Loop Other (Louisiana SQM)
  - Unbundled Ports (Louisiana SQM)

- Trunks
  - Local Interconnection Trunks

- Geographic Scope
  - State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA)

The following measure is the exception for all states:
Coordinated Customer Conversion

Which is disaggregated as follows:
UNE LOOPS with INP
UNE LOOPS without INP

PROVISIONING

Report/Measurement:

P-1. Mean Held Order Interval & Distribution Intervals

Definition:

When delays occur in completing CLEC orders, the average period that CLEC orders are held for BST reasons, pending a delayed completion, should be no worse for the CLEC when compared to BST delayed orders.

Exclusions:

Order Activities of BST associated with internal or administrative use of local services.

Business Rules:

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

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

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

Calculation:

Mean Held Order Interval:

Σ(Reporting Period Close Date – Committed Order Due Date) / (Number of Orders Pending and Past The Committed Due Date) for all orders pending and past the committed due date.

Held Order Distribution Interval:

(# of Orders Held for ≥90 days) / (Total # of Orders Pending But Not Completed) X 100

(# of Orders Held for ≥15 days) / (Total # of Orders Pending But Not Completed) X 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate

Level of Disaggregation:

Circuit breakout < 10, > = 10

PROVISIONING - Mean Held Order Interval & Distribution Intervals – Continued)

Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
• Report Month • CLEC Order Number and PON (PON) • Order Submission Date (TICKET_ID) • Committed Due Date (DD) • Service Type(CLASS_SVC_DESC) • Hold Reason • Total line/circuit count • Geographic Scope **NOTE:** Code in parentheses is the corresponding header found in the raw data file.	• Report Month • BST Order Number • Order Submission Date • Committed Due Date • Service Type • Hold Reason • Total line/circuit count • Geographic Scope
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 –BST UNEs-(See Appendix D)	

Revision Date: 02/24/00 (taf)

PROVISIONING

Report/Measurement:

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

Definition:

When BST can determine in advance that a committed due date is in jeopardy, it will provide advance notice to the CLEC

Exclusions:

- Orders held for CLEC end user reasons
- Orders submitted to BST through non-mechanized methods

Business Rules:

When BST can determine in advance that a committed due date is in jeopardy it will provide advance notice to the CLEC. The number of committed orders in a report period is the number of orders that have a due date in the reporting period.

Calculation:

Average Jeopardy Interval = Σ [(Date and Time of Scheduled Due Date on Service Order) - (Date and Time of Jeopardy Notice)]/[Number of Orders Notified of Jeopardy in Reporting Period).

Percent of Orders Given Jeopardy Notice = Σ [(Number of Orders Given Jeopardy Notices in Reporting Period) / (Number of Orders Confirmed (due) in Reporting Period)

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate

Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
• Report Month • CLEC Order Number and PON • Date and Time Jeopardy Notice sent • Committed Due Date • Service Type **NOTE:** Code in parentheses is the corresponding header found in the raw data file.	• Report Month • BST Order Number • Date and Time Jeopardy Notice sent • Committed Due Date • Service type

Retail Analog/Benchmark:

95% > = 24 hours

Revision Date: 01/05/00 (taf)

PROVISIONING

Report/Measurement:

P-3. 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.

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 is the percentage of total orders processed for which BST is unable to complete the service orders on the confirmed due dates. Missed Appointments caused by end-user reasons will be included and reported separately. A business day is any time period within the same date frame, 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 Not Complete by Committed Due Date in Reporting Period) / (Number of Orders Confirmed in Reporting Period) 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. The End User MA represents the percentage of orders missed by the CLEC or their end user.

Level of Disaggregation:

- Reported in categories of <10 lines/circuits; > = 10 lines/circuits
- Dispatch/No Dispatch

Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
• Report Month • CLEC Order Number and PON (PON) • Committed Due Date (DD) • Completion Date (CMPLTN DD) • Status Type • Status Notice Date • Standard Order Activity • Geographic Scope **NOTE:** Code in parentheses is the corresponding header found in the raw data file.	• Report Month • BST Order Number • Committed Due Date (DD) • Completion Date (CMPLTN DD) • Status Type • Status Notice Date • Standard Order Activity • Geographic Scope

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 –BST
UNEs-(See Appendix D)

Revision Date: 02/28/00 (taf)

PROVISIONING -

Report/Measurement :

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

Definition:

The "average completion interval" measure monitors the interval of time it takes BST to provide service for the CLEC or its' own customers. The "Order Completion Interval Distribution" provides the percentage of orders completed within certain time periods.

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 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. 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.

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

Calculation :

Average Completion Interval:

Σ [(Completion Date & Time) - (Order Issue Date & Time)] / Σ (Count of Orders Completed in Reporting period)

Order Completion Interval Distribution:

Σ (Service Orders Completed in "X" days) / (Total Service Orders Completed in Reporting Period) X 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate

Level of Disaggregation:

- ISDN Orders included in Non Design - GA Only
- Dispatch/No Dispatch categories applicable to all levels except trunks.
- Residence & Business reported in day intervals = 0,1,2,3,4, 5, 5+
- UNE and Design reported in day intervals = 0-5, 5-10, 10-15, 15-20, 20-25, 25-30, >=30
- All Levels are reported <10 line/circuits; >=10 line/circuits

PROVISIONING –
(Average Completion Interval (OCI) & Order Completion Interval Distribution – Continued)

Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
• Report Month • CLEC Company Name • 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.	• Report Month • BST Order Number • Order Submission Date & Time • Order Completion Date & Time • Service Type • Geographic Scope
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-BST UNEs-(See Appendix D)	

Revision Date: 02/28/00 (taf)

PROVISIONING

Report/Measurement:

P-5. Average Completion Notice Interval

Definition:

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

Exclusions:

- Non-mechanized Orders
- Cancelled Service Orders
- Order Activities of BST associated with internal or administrative use of local services
- D & F orders

Business Rules:

Measurement of interval of completion date and time by a field technician on dispatched orders, and 5PM start time on the due date for non-dispatched orders; to the release of a notice to the CLEC/BST of the completion status. The field technician notifies the CLEC the work was complete and then he enters the completion time stamp information in his computer. This information switches through to the SOCS systems either completing the order or rejecting the order to the Work Management Center (WMC). If the completion is rejected, it is manually corrected and then completed by the WMC. The notice is returned on each individual order submitted and as the notice is sent electronically, it can only be switched to those orders that were submitted by the CLEC electronically. The start time is the completion stamp either by the field technician or the 5PM due date stamp; the end time is the time stamp the notice was submitted to the CLEC/BST system.

Calculation:

Σ (Date and Time of Notice of Completion) – (Date and Time of Work Completion) / (Number of Orders Completed 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 Experience
• Report Month • CLEC Order Number • Work Completion Date • Work Completion Time • Completion Notice Availability Date • Completion Notice Availability Time • Service Type • Activity Type • Geographic Scope **NOTE:** Code in parentheses is the corresponding header found in the raw data file.	• Report Month • BST Order Number • Work Completion Date • Work Completion Time • Completion Notice Availability Date • Completion Notice Availability Time • Service Type • Activity Type • 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-BST
UNEs – (See Appendix D)

Revision Date 02/24/00 (taf)

PROVISIONING

Report/Measurement:

P-6. Coordinated Customer Conversions

Definition:

This category measures the average time it takes BST to disconnect 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 INP, and where the CLEC has requested BST to provide a coordinated cutover.

Exclusions:

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

Business Rules:

Where the service order includes INP, the interval includes the 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 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 Unbundled Loop)] / Total Number of Unbundled Loop with Coordinated Conversions (items) for the reporting period.

Report Structure:

- CLEC Specific
- CLEC Aggregate

Level of Disaggregation:

Reported in intervals <=5 minutes; >5,< =15 minutes; >15 minutes, plus Overall Average interval

Data Retained Relating to CLEC Experience	**Data Retained Relating to BST Experience**
• Report Month • 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.	• No BST Analog Exists

Retail Analog/Benchmark:

There is no retail analog for this measurement because it measures cutting loops to the CLEC.
Benchmark – See Appendix D

Revision Date: 02/28/00 (taf)

PROVISIONING

Report/Measurement:

P-7. % Provisioning Troubles within 30 days of Service Order Activity

Definition:

Percent Provisioning Troubles within 30 days of Installation measures the quality and accuracy of installation 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 & F orders

Business Rules:

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

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

Calculation:

% Provisioning Troubles within 30 days of Service Order Activity = Σ (Trouble reports on all completed orders ≤ 30 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:

- 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 • CLEC Order Number and PON • Order Submission Date(TICKET_ID) • Order Submission Time (TICKET_ID) • Status Type • Status Notice Date • Standard Order Activity • Geographic Scope **NOTE:** Code in parentheses is the corresponding header found in the raw data file.	• Report Month • BST Order Number • Order Submission Date • Order Submission Time • Status Type • Status Notice Date • Standard Order Activity • Geographic Scope

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 –BST
UNEs-(See Appendix D)

Revision Date: 02/28/00 (taf)

PROVISIONING -

Report/Measurement :

P-8. Total Service Order Cycle Time (TSOCT)

Definition:

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

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 disconnect side of a move order when the customer moves to a new address).
- "L" Appointment coded orders (where the customer has requested a later than offered interval)
- Orders with CLEC/Subscriber caused delays or CLEC/Subscriber requested due date changes.

Business Rules:

The interval is determined for each order processed during the reporting period. This measurement combines 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.

Calculation :

Total Service Order Cycle Time

Σ(Date and Time of Service Request Receipt) – (Completion Date and Time of Service Order) (SOCS HIST-CD DATE) / (Count of Orders Completed in Reporting Period)

Report Structure:

- CLEC Specific
- CLEC Aggregate
- 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 • Interval for FOC • CLEC Company Name • 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.	• Report Month • BST Order Number • Order Submission Date & Time • Order Completion Date & Time • Service Type • Geographic Scope

Retail Analog/Benchmark

See Appendix D

Revision Date: 02/28/00 (taf)

PROVISIONING

Report/Measurement:

P-9. Service Order Accuracy GEORGIA ONLY

Definition:

The "service order accuracy" measurement measures the accuracy and completeness 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 administrative use of local services
- & F orders

Business Rules:

A manual sampling of service orders, completed during a monthly reporting period, is compared to the original account profile and the order that the CLEC sent to BST. An order is "completed without error" if all service attributes and account detail changes (as determined by comparing the original order) completely and accurately reflect the activity specified on the original order and any supplemental CLEC order.

Calculation:

Percent Service Order Accuracy = Σ (Orders Completed without Error) / Σ (Orders Completed in Reporting Period) x 100

Report Structure:

CLEC Aggregate

Level of Disaggregation:

- 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 • CLEC Order Number and PON • Local Service Request (LSR) • Order Submission Date • Committed Due Date • Service Type • Standard Order Activity **NOTE:** Code in parentheses is the corresponding header found in the raw data file.	• Being investigated at this time

Retail Analog/Benchmark:
(Under Investigation)

Revision Date: 01/05/00 (taf)

PROVISIONING

Report/Measurement:
LNP – 10. 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
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. A business day is any time period within the same date frame, 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: [(Number of Orders Not Completed by Committed Due Date in Reporting Period) / (Number of Orders Completed in Reporting Period)] 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 result of BST caused misses.
Level of Disaggregation:
• Product Reporting Levels ➢ LNP ➢ UNE Loop Associated w/LNP • Geographic Scope ➢ State, Region
Retail Analog/Benchmark:
See Appendix D

Revision Date: 02/16/00 (taf)

PROVISIONING – (LNP)

Report/Measurement :
LNP-11. 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 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.
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:
• Mechanized (service orders generated by LSRs submitted via EDI or TAG) • CLEC Specific • CLEC Aggregate
Level of Disaggregation:
• Reported in day intervals = 0,1,2,3,4, 5, >5 days • Product Reporting Levels ➢LNP • Geographic Scope ➢State, Region
Retail Analog/Benchmark:
See Appendix D

Revision Date: 02/16/00 (taf)

PROVISIONING

Report/Measurement :

LNP-12. Total Service Order Cycle Time

Definition:

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

Exclusions:

- Canceled Service Orders
- Order Activities of BST or the CLEC 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 receipt of a valid service request and stops when the technician or system completes all the related service orders for the LSR in SOCS. Elapsed 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 & Time) - (Service Request Receipt Date & Time)] / 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 Structure:

- Mechanized (service orders generated by LSRs submitted via EDI or TAG)
- CLEC Specific
- CLEC Aggregate
- "W" Appointment Code Only (Company Offered)

Level of Disaggregation:

- Reported in day intervals 0 - 5, 5 - 10, 10 - 15, 15 - 20, 20 - 25, 25 - 30, >30 days
- Product Reporting Levels
  - LNP
  - UNE Loop with LNP
- Geographic Scope
  - State, Region

Retail Analog/Benchmark:

See Appendix D

Revision Date: 02/16/00 (taf)

Maintenance and Repair Level of Disaggregation

Product Reporting Levels

- Resale Retail
  - Pots – Residence
  - Pots – Business
  - PBX (Louisiana SQM)
  - ESSX (Louisiana SQM)
  - CENTREX (Louisiana SQM)
  - ISDN (Louisiana SQM) (**NOTE**: ISDN Troubles included in Non-Design Georgia Only)
  - Design

- 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 (Louisiana SQM)

- Trunks
  - Local Interconnection Trunks

- Dispatch/No Dispatch categories applicable to all product levels

- Geographic Scope

- State. Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA)

MAINTENANCE & REPAIR

Report/Measurement:

M&R-1. Missed Repair Appointments

Definition:

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

Exclusions:

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

Business Rules:

The negotiated commitment date and time is established when the repair report is received. The cleared time is the date and time that BST personnel clear the trouble and closes the trouble report in his Computer Access Terminal (CAT) or workstation. If this is after the Commitment time, the report is flagged as a "Missed Commitment" or a missed repair appointment. When the data for this measure is collected for BST and a CLEC, it can be used to compare the percentage of the time repair appointments are missed due to BST reasons. Note: Appointment intervals vary with force availability in the POTS environment. Specials and Trunk intervals are standard interval appointments of no greater than 24 hours.

Calculation:

Percentage of Missed Repair Appointments =Σ (Count of Customer Troubles Not Cleared by the Quoted Commitment Date and Time) / Σ (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 Experience
• Report Month • CLEC Company Name • Submission Date & Time (TICKET_ID) • Completion Date (CMPLTN_DT) • Service Type (CLASS_SVC_DESC) • Disposition and Cause (CAUSE_CD & CAUSE_DESC) • Geographic Scope **NOTE:** Code in parentheses is the corresponding header found in the raw data file.	• Report Month • BST Company Code • Submission Date & Time • Completion Date • Service Type • Disposition and Cause (Non-Design /Non-Special Only) • Trouble Code (Design and Trunking Services) • Geographic Scope

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, Centrex, and ISDN Retail
CLEC Trunking-Resale / BST Trunking-Retail
UNEs – (See Appendix D)

Revision Date: 02/22/00 (see)

MAINTENANCE & REPAIR

Report/Measurement:

M&R-2. Customer Trouble Report Rate

Definition:

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

Exclusions:

- Trouble tickets canceled at the CLEC request.
- BST trouble reports associated with administrative service.
- Customer provided Equipment (CPE) troubles or CLEC equipment troubles.

Business Rules:

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

Calculation:

Customer Trouble Report Rate = (Count of Initial and Repeated Trouble Reports in the Current Period) / (Number of Service Access Lines in service at End of the Report Period) X 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate

Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
• Report Month • CLEC Company Name • Ticket Submission Date & Time (TICKET_ID) • Ticket Completion Date (CMPLTN_DT) • Service Type (CLASS_SVC_DESC) • Disposition and Cause (CAUSE_CD & CAUSE_DESC) • # Service Access Lines in Service at the end of period • Geographic Scope **NOTE:** Code in parentheses is the corresponding header found in the raw data file.	• Report Month • BST Company Code • Ticket Submission Date & Time • Ticket Completion Date • Service Type • Disposition and Cause (Non-Design / Non-Special Only) • Trouble Code (Design and Trunking Services) • # Service Access Lines in Service at the end of period • Geographic Scope

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, Centrex, and ISDN Retail
CLEC Trunking-Resale / BST Trunking-Retail
UNEs – (See Appendix D)

Revision Date: 02/22/00 (see)

MAINTENANCE & REPAIR

Report/Measurement:

M&R-3. Maintenance Average Duration

Definition:

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

Exclusions:

- Trouble reports canceled at the CLEC request
- BST trouble reports associated with administrative service
- Customer Provided Equipment (CPE) troubles or CLEC Equipment Troubles.
- 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 on the date and time the service is restored and the customer notified (when the technician completes the trouble ticket on his/her CAT or work system).

NOTE: Customer can be BST or CLEC

Calculation:

Maintenance Average Duration = Σ(Date and Time of Service Restoration) – (Date and Time Trouble Ticket was Opened) / Σ(Total Closed Troubles in the reporting period)

Report Structure:

- CLEC Specific
- BST Aggregate
- CLEC Aggregate

Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
• Report Month • Total Tickets (LINE_NBR) • CLEC Company Name • Ticket Submission Date & Time (TIME_ID) • Ticket Completion Date (CMPLTN_DT • Service Type (CLASS_SVC_DESC) • Disposition and Cause (CAUSE_CD & CAUSE_DESC) • Geographic Scope **NOTE:** Code in parentheses is the corresponding header found in the raw data file.	• Report Month • Total Tickets • BST Company Code • Ticket Submission Date • Ticket submission Time • Ticket completion Date • Ticket Completion Time • Total Duration Time • Service Type • Disposition and Cause (Non – Design /Non-Special Only) • Trouble Code (Design and Trunking Services) • Geographic Scope

Retail Analog/Benchmark:

CLEC Residence-Resale / BST Residence-Resale
CLEC Business-Resale / BST Business-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: 02/22/00 (see)

MAINTENANCE & REPAIR

Report/Measurement:

M&R-4. Percent Repeat Troubles within 30 Days

Definition:

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

Exclusions:

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

Business Rules:

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

Calculation:

Percent Repeat Troubles within 30 Days = (Count of Customer Troubles where more than one trouble report was logged for the same service line within a continuous 30 days) / (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 Experience
• Report Month • Total Tickets (LINE_NBR) • CLEC Company Name • Ticket Submission Date & Time (TICKET_ID) • Ticket Completion Date (CMPLTN_DT) • Total and Percent Repeat Trouble Reports within 30 Days (TOT_REPEAT) • Service Type • Disposition and Cause (CAUSE_CD & CAUSE_DESC) • Geographic Scope **NOTE:** Code parentheses is the corresponding header format found in the raw data file.	• Report Month • Total Tickets • BST Company Code • Ticket Submission Date • Ticket Submission Time • Ticket Completion Date • Ticket Completion Time • Total and Percent Repeat Trouble Reports within 30 Days • Service Type • Disposition and Cause (Non – Design/Non-Special only) • Trouble Code (Design and Trunking Services) • Geographic Scope

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, Centrex and ISDN Retail
CLEC Trunking-Resale / BST Trunking-Retail
UNEs – Retail Analog (See Appendix D)

Revision date: 02/22/00 (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 called or cannot call out) the percentage of troubles cleared in excess of 24 hours. (All design services are considered to be out of service).

Exclusions:

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

Business Rules:

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

Calculation:

Out of Service (OOS) > 24 hours = (Total Troubles 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 • Total Tickets • CLEC Company Name • Ticket Submission Date & Time (TICKET_ID) • Ticket Completion Date (CMPLTN_DT • Percentage of Customer Troubles out of • Service > 24 Hours (OOS>24_FLAG) • Service type (CLASS_SVC_DESC) • Disposition and Cause (CAUSE_CD & CAUSE-DESC) • Geographic Scope **NOTE:** Code in parentheses is the corresponding header found in the raw data file.	• Report Month • Total Tickets • BST Company Code • Ticket Submission Date • Ticket Submission time • Ticket Completion Date • Ticket Completion Time • Percent of Customer Troubles out of Service > 24 Hours • Service type • Disposition and Cause (Non – Design/Non-Special only) • Trouble Code (Design and Trunking Services) • Geographic Scope

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, Centrex and ISDN Retail
CLEC Trunking-Resale /BST Trunking- Retail
UNEs Retail Analog – (See Appendix D)

Revision Date: 02/22/00 (see)

MAINTENANCE & REPAIR

Report/Measurement:

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

Definition:

This measures the average time a customers is in Que.

Exclusions:

None

Business Rules:

This measure is designed to measure the time required for CLEC & BST from the time of the ACD choice to the time of being answered. The clock starts when the CLEC Rep makes a choice to be put in queue for the next repair attendant and the clock stops when the repair attendant answers the call.

(NOTE: The 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.
See Appendix D

Revision Date: 02/22/00 (see)

BILLING

Report/Measurement:

B-1. Invoice Accuracy

Definition:

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

Exclusions:

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

Business Rules:

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

Calculation:

Invoice Accuracy = (Total Billed Revenues during current month) – (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 :

- Product / Invoice Type
  - Resale
  - UNE
  - Interconnection
- Geographic Scope
  - Region

Data Retained Relating to CLEC Experience:	**Data Retained Relating to BST Performance:**

• Report Month
• Invoice Type
• Total Billed Revenue
• Billing Related Adjustments
	• Report Month
	• Retail Type
	  ➢ CRIS
	  ➢ CABS
	• Total Billed Revenue
	• Billing Related Adjustments

Retail Analog/Benchmark

CLEC Invoice Accuracy is comparable to BST Invoice Accuracy
See Appendix D

Revision Date: 02/28/00 (dg)

BILLING

Report/Measurement:

B-2. Mean Time to Deliver Invoices

Definition:

This measure provides the mean interval for billing invoices

Exclusions:

Any invoices rejected due to formatting or content errors.

Business Rules:

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

Calculation:

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
• Invoice Type
• Invoice Transmission Count
• Date of Scheduled Bill Close
	• Report Month
	• Retail Type
	  ➢ CRIS
	  ➢ 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: 02/28/00 (dg)

BILLING

Report/Measurement:	
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 BellSouth performance. This measurement captures Data Delivery Accuracy rather than the accuracy of the individual usage recording.	
Exclusions:	
None	
Business Rules:	
The accuracy of the data delivery of usage records delivered by BST to the CLEC must enable them to provide a degree of accuracy comparative to BST 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 Specific • CLEC Aggregate • BST Aggregate	
Level of Disaggregation:	
• Geographic Scope ➢ Region	
Data Retained Relating to CLEC Experience:	**Data Retained Relating to BST Performance:**
• Report Month • Record Type ➢ BellSouth Recorded ➢ Non BellSouth Recorded	• Report Month • Record Type
Retail Analog/Benchmark:	
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 CMDS. BellSouth delivers its own retail usage from recording location to billing location via CMDS as well as delivering billing data to other companies. Timeliness, Completeness and Mean Time to Deliver Usage measures are reported on the same report.

Exclusions:

None

Business Rules:

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

Calculation:

Usage Data Delivery Completeness = Σ(Total number of Recorded usage records delivered during the 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

Report Structure

- CLEC Specific
- CLEC Aggregate
- BST Aggregate

Level of Disaggregation:

- Geographic Scope
  - Region

Data Retained Relating to CLEC Experience:	**Data Retained Relating to BST Performance:**
• Report Month • Record Type ➢ BellSouth Recorded ➢ Non BellSouth Recorded	• Report Monthly • Record Type

Retail Analog/Benchmark:

CLEC Usage Delivery Completeness is comparable to BST Usage 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 transmitted via CMDS. Timeliness, Completeness and Mean Time to Deliver Usage measures are reported on the same report.

Exclusions:

None

Business Rules:

The purpose of this measurement is to demonstrate the level of timeliness for processing and transmission of usage data delivered to the appropriate CLEC. The usage data will be mechanically transmitted or mailed to the CLEC data processing center once daily. The Timeliness interval of usage recorded by other companies is measured from the date 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 = 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 • Record Type ➢ BellSouth Recorded ➢ Non-BellSouth Recorded	• Report Monthly • Record Type

Retail Analog/Benchmark:

CLEC Usage Data Delivery Timeliness is comparable to BST Usage Data Delivery Timeliness
See Appendix D

Revision date: 02/28/00 (dg)

BILLING

Report/Measurement:

B-6. Mean Time to Deliver Usage

Definition:

This measurement provides the average time it takes to deliver Usage Records to a CLEC. A parity measure is also provided showing timeliness of 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 the average number of days it takes BST to deliver Usage data to the appropriate CLEC. Usage data is mechanically transmitted or mailed to the CLEC data processing center once daily. Method of delivery is at the option of the CLEC.

Calculation:

Mean Time to Deliver Usage = Σ_(Record volume X estimated number of days to deliver the Usage Record) / total record volume

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 • Record Type ➢ BellSouth Recorded ➢ Non-BellSouth Recorded	• Report Monthly • Record Type

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: 02/28/00 (dg)

OPERATOR SERVICES

Report/Measurement:
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:
Calls abandoned by customers are not reflected in the average speed to answer but are reflected in the conversion tables where the percent answered within "X" seconds is determined.
Business Rules:
The call waiting measurement scan starts when the customer enters the queue and ends when a BST representative answers the call. The average speed to answer is determined by measuring and accumulating the seconds of wait time from the entry of a customer into the BST call management system queue until the customer is transferred to a BST representative. No distinction is made between CLEC customers and BST customers.
Calculation:
The Average Speed to Answer for toll is calculated by using data from monthly system measurement reports taken from the centralized call routing switches. The "total call waiting seconds" is a sub-component of this measure which BST systems calculate by monitoring the number of calls in queue throughout the day multiplied by the time (in seconds) between monitoring events. The "total calls served" is the other sub-component of this measure, which BST systems record as the total number of calls handled by Operator Services toll centers. Since calls abandoned are not reflected in the calculation, the percent answered within the required timeframe is determined by using conversion tables with input for the abandonment rate.
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
Retail Analog/Benchmark
Parity by Design See Appendix D

Revision Date: 02/28/00 (tg)

OPERATOR SERVICES

Report/Measurement:

OS-2. Speed to Answer Performance/Percent Answered within "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 against the Average Speed to Answer by a State Commission.

Exclusions:

Calls abandoned by customers are not reflected in the average speed to answer but are reflected in the conversion tables where the percent answered within "X" seconds is determined.

Business Rules:

The call waiting measurement scan starts when the customer enters the queue and ends when a BST representative answers the call. The average speed to answer is determined by measuring and accumulating the seconds of wait time from the entry of a customer into the BST call management system queue until the customer is transferred to a BST representative. No distinction is made 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

Retail Analog/Benchmark

Parity by Design
See Appendix D

Revision Date: 02/28/00 (tg)

OPERATOR SERVICES

Report/Measurement:

OS-3. Speed to Answer Performance/Average Speed to Answer – Directory Assistance (DA)

Definition:

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

Exclusions:

Calls abandoned by customers are not reflected in the average speed to answer but are reflected in the conversion tables where the percent answered within "X" seconds is determined.

Business Rules:

The call waiting measurement scan starts when the customer enters the queue and ends when a BST representative answers the call. The average speed to answer is determined by measuring and accumulating the seconds of wait time from the entry of a customer into the BST call management system queue until the customer is transferred to a BST representative. No distinction is made between CLEC customers and BST customers.

Calculation:

The Average Speed to Answer for DA is calculated by using data from monthly system measurement reports taken from the centralized call routing switches. The "total call waiting seconds" is a sub-component of this measure which BST systems calculate by monitoring the number of calls in queue throughout the day multiplied by the time (in seconds) between monitoring events. The "total calls served" is the other sub-component of this measure, which BST systems record as the total number of calls handled by Operator Services DA centers. Since calls abandoned are not reflected in the calculation, the percent answered within the required timeframe is determined by using conversion tables with input for the abandonment rate.

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: 02/28/00 (tg)

OPERATOR SERVICES

Report/Measurement:

OS-4. 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 against the Average Speed to Answer by a State Commission.

Exclusions:

Calls abandoned by customers are not reflected in the average speed to answer but are reflected in the conversion tables where the percent answered within "X" seconds is determined.

Business Rules:

The call waiting measurement scan starts when the customer enters the queue and ends when a BST representative answers the call. The average speed to answer is determined by measuring and accumulating the seconds of wait time from the entry of a customer into the BST call management system queue until the customer is transferred to a BST representative. No distinction is made 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: 02/28/00 (tg)

E911

Report/Measurement:

E-1. Timeliness

Definition:

Measures the percentage of batch orders for E911 database updates (to CLEC resale and BST retail records) processed successfully within a 24-hour period.

Exclusions:

- Any resale order canceled by a CLEC
- Facilities-based CLEC orders

Business Rules:

The 24-hour processing period is calculated based on the date and time processing starts on the batch orders and the date and time processing stops on the batch orders. Mechanical processing starts when SCC (BST's E911 vendor) receives E911 files containing batch orders extracted from BST's Service Order Communication System (SOCS). Processing stops when SCC loads the individual records to the E911 database. No distinctions are made between CLEC resale records and BST retail records.

Calculation:

E911 Timeliness = 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

Levels of Disaggregation:

None

Data Retained

- Report month
- Aggregate data

Retail Analog/Benchmark

Parity by Design
See Appendix D

Revision Date: 02/28/00 (tg)

E911

Report/Measurement:
E-2. Accuracy
Definition:
Measures the individual E911 telephone number (TN) record updates (to CLEC resale and BST retail records) processed successfully for E911 with no errors.
Exclusions:
• Any resale order canceled by a CLEC • Facilities-based CLEC orders
Business Rules:
Accuracy is based on the number of records processed without error at the conclusion of the processing cycle. Mechanical processing starts when SCC (BST's E911 vendor) receives E911 files containing telephone number (TN) records extracted from BST's Service Order Communication System (SOCS). No distinctions are made between CLEC resale records and BST retail records.
Calculation:
E911 Accuracy = Σ(Number of record individual updates processed with no errors ÷ Total number of individual record updates) 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: 02/28/00 (tg)

E911

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 Rules:
The processing period is calculated based on the date and time processing starts on the batch orders and the date and time processing stops on the batch orders. Data is posted in 4-hour increments up to and beyond 24 hours. No distinctions are made between CLEC resale records and BST 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 Retained (on Aggregate Basis)
• Report month • Aggregate data
Retail Analog/Benchmark
Parity by Design See Appendix D

Revision Date: 02/28/00 (tg)

TRUNK GROUP PERFORMANCE

Report/Measurement:

TGP-1. Trunk Group Performance-Aggregate

Definition:

A report of aggregate blocking information for CLEC trunk groups and BellSouth trunk groups.

Exclusions:

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

Business Rules:

- Aggregate blocking results are created using the statistical analysis package and are output into Excel with separate table for each geographic area.

- For each geographic area, plots are generated for: a) the monthly blocking by hour for each affecting group (BellSouth or CLEC), and b) the difference between BellSouth blocking data and CLEC blocking data is calculated and plotted.

- The TCBH blocking is calculated by determining the monthly averaging blocking for each hour for each trunk. The hour with the highest usage is selected as the TCBH and the blocking for that hour is reported.

- Trunk Categorization: This report displays, over a reporting cycle, aggregate, weighted 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 to that trunk reports can be generated. The categories to which trunk groups have been assigned for this report are as follows:

CLEC Affecting Categories:

	Point A	Point B
Category 1:	BellSouth End Office	BellSouth Access Tandem
Category 3:	BellSouth End Office	CLEC Switch
Category 4:	BellSouth Local Tandem	CLEC Switch
Category 5:	BellSouth Access Tandem	CLEC Switch
Category 10:	BellSouth End Office	BellSouth Local Tandem
Category 16:	BellSouth Tandem	BellSouth Tandem

BellSouth Affecting Category:

	Point A	Point B
Category 9:	BellSouth End Office	BellSouth End Office

TRUNK GROUP PERFORMANCE - (Trunk Group Performance-Aggregate – Continued)

Calculation:

Monthly Weighted Average Blocking:

(Blocking data for each hour X number of valid measurement days within each week) Σ (Total number of valid measurement days within each week)

Example: Hour		Week 1	Week 2	Week 3	Week 4	Monthly
1	Blocking	1%	0.5%	2%	1.5%	1.8%
	# Days	7	7	5	6	
2	Blocking	0%	0%	0.2%	0.3%	.1%
	# Days	7	5	5	7	
3	Blocking	1%	1%	0.5%	2%	1.1%
	# Days	7	7	7	7	
24	Blocking	1%	0.5%	2%	1.5%	1.2%
	# Days	7	7	5	6	

The monthly weighted average blocking for hour 1 for a particular trunk group is calculated as follows:

$$\frac{(1x5)+(0.5x5)+(2x4)+(1.5x4)}{(5+5+4+4)} = 1.2\%$$

Aggregate Monthly Blocking:

(Monthly weighted average blocking value for each trunk group) X (number of trunks within each trunk group) / Σ (number of trunks in the aggregate group)

Example: Trunk Group	Trunks in Service	Blocking Hour 1	Blocking Hour 2	Blocking Hour 3	Blocking Hour 4	..... Blocking Hour 24
A	24	3%	0%	1%	0%	0%
B	144	2%	0%	1%	0.5%	0.5%
C	528	0%	0.5%	1%	1%	1%
D	316	1%	0%	1%	0.1%	0%
E	940	1%	1%	4%	0%	0%
Aggregate		0.8%	0.6%	2.4%	0.3%	0.3%

The aggregate weighted monthly blocking for hour 1 is calculated as follows:

$$\frac{(3x24)+(2x144)+(0x528)+(1x316)+(1x940)}{(24+144+528+316+940)} = 0.8\%$$

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.

Report Structure:

- CLEC Aggregate
  - State

Level of Disaggregation:

Trunk Group

Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
• Report Month • Total Trunk Groups • Number of Trunk Groups by CLEC • Hourly average blocking per trunk group	• Report Month • Total Trunk Groups • Aggregate Hourly average blocking

Retail Analog/Benchmark:

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.

Revision Date: 02/28/00 (tm)

TRUNK GROUP PERFORMANCE

Report/Measurement:

TGP-2. Trunk Group Performance-CLEC Specific

Definition:

A report of blocking information for CLEC trunk groups.

Exclusions:

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

Business Rules:

- Aggregate blocking results are created using the statistical analysis package and are output into Excel with separate table for each geographic area.
- For each geographic area, plots are generated for the monthly blocking by hour
- The TCBH blocking is calculated by determining the monthly averaging blocking for each hour for each trunk. The hour with the highest usage is selected as the TCBH and the blocking for that hour is reported.
- Trunk Categorization: This report displays, over a reporting cycle, aggregate, weighted average blocking data for each hour of a day. Therefore, for each reporting cycle, 24 blocking data points are generated for CLEC trunk groups. In order to assign trunk groups to the CLEC 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 to that trunk reports can be generated. The categories to which trunk groups have been assigned for this report are as follows:

CLEC Affecting Categories:

	Point A	Point B
Category 1:	BellSouth End Office	BellSouth Access Tandem
Category 3:	BellSouth End Office	CLEC Switch
Category 4:	BellSouth Local Tandem	CLEC Switch
Category 5:	BellSouth Access Tandem	CLEC Switch
Category 10:	BellSouth End Office	BellSouth Local Tandem
Category 16:	BellSouth Tandem	BellSouth Tandem

TRUNK GROUP PERFORMANCE - (Trunk Group Performance-CLEC Specific – Continued)

Calculation:

Monthly Weighted Average Blocking:

(Blocking data for each hour X number of valid measurement days within each week) / Σ (Total number of valid measurement days within each week)

Example: Hour		Week 1	Week 2	Week 3	Week 4	Monthly
1	Blocking	1%	0.5%	2%	1.5%	1.8%
	# Days	7	7	5	6	
2	Blocking	0%	0%	0.2%	0.3%	.1%
	# Days	7	5	5	7	
3	Blocking	1%	1%	0.5%	2%	1.1%
	# Days	7	7	7	7	5
24	Blocking	1%	0.5%	2%	1.5%	1.2%
	# Days	7	7	5	6	

The monthly weighted average blocking for hour 1 for a particular trunk group is calculated as follows:

$$\frac{(1x5)+(0.5x5)+(2x4)+(1.5x4)}{(5+5+4+4)} = 1.2\%$$

Aggregate Monthly Blocking:

(Monthly weighted average blocking value for each trunk group) X (number of trunks within each trunk group) / Σ (number of trunks in the aggregate group)

Example: Trunk Group	Trunks in Service	Blocking Hour 1	Blocking Hour 2	Blocking Hour 3	Blocking Hour 4	..... Blocking Hour 24
A	24	3%	0%	1%	0%	0%
B	144	2%	0%	1%	0.5%	0.5%
C	528	0%	0.5%	1%	1%	1%
D	316	1%	0%	1%	0.1%	0%
E	940	1%	1%	4%	0%	0%
Aggregate		0.8%	0.6%	2.4%	0.3%	0.3%

The aggregate weighted monthly blocking for hour 1 is calculated as follows:

$$\frac{(3x24)+(2x144)+(0x528)+(1x316)+(1x940)}{(24+144+528+316+940)} = 0.8\%$$

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.

Report Structure:

- CLEC Specific
- Trunk Group

Level of Disaggregation:

Trunk Group

Data Retained Relating to CLEC Experience	Data Retained Relating to BST Experience
• Report Month • Total Trunk Groups • Number of Trunk Groups by CLEC • Hourly average blocking per trunk group	• Report Month • Total Trunk Groups • Aggregate Hourly average blocking

Retail Analog/Benchmark:

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.

Revision Date: 02/28/00 (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:

- Trunk groups for which valid traffic data is not available
- High use trunk groups

Business Rules:

Traffic trunking data measurements are validated and processed by the Total Network Data System/Trunking (TNDS/TK), a Telcordia (BellCore) supported application, on an hourly basis for Average Business Days (Monday through Friday). The traffic load sets, including offered load and observed blocking ratio (calls blocked divided by calls attempted), are averaged for a 20 day period, and the busy hour is selected. The busy hour average data for each trunk group is captured for reporting purposes. Although all trunk groups are available for reporting, the report highlight those trunk groups with blocking greater than the Measured Blocking Threshold (MBT) and the number of consecutive monthly 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:

Measured blocking = (Total number of blocked calls) / (Total 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

Data Retained Relating to CLEC Experience	**Data Retained Relating to BST Experience**
• Report month • Total trunk groups • Total trunk groups for which data is available • Trunk groups with blocking greater than the MBT • Percent of trunk groups with blocking greater than the MBT	• Report month • Total trunk groups • Total trunk groups for which data is available • Trunk groups with blocking greater than the MBT • Percent of trunk groups with blocking greater than the MBT

Retail Analog/Benchmark:

CLEC Trunk Blockage/BST Trunk Blockage
See Appendix D

Revision Date: 02/28/00 (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 processed by the Total Network Data System/Trunking (TNDS/TK), a Telcordia (Bellcore) supported application, on an hourly basis for Average Business Days (Monday through Friday). The traffic load sets, including offered load and observed blocking ratio (calls blocked divided by calls attempted), are averaged for a 20 day period, and the busy hour is selected. The busy hour average data for each trunk group is captured for reporting purposes. Although all trunk groups are available for reporting, the report highlight those trunk groups with blocking greater than the Measured Blocking Threshold (MBT) and the number of consecutive monthly 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:

Measured Blocking = (Total number of blocked calls) / (Total number of attempted calls) X 100

Report Structure:

- BST Specific
  - Traffic Identity
  - TGSN
  - Tandem
  - End Office
  - Description
  - Observed Blocking
  - Busy Hour
  - Number Trunks
  - Valid study days
  - Number reports
  - Remarks
- CLEC Specific
  - Traffic Identity
  - TGSN
  - Tandem
  - CLEC POT
  - Description
  - Observed Blocking
  - Busy Hour
  - Number Trunks
  - Valid study days
  - Number reports
  - Remarks

Level of Disaggregation:

State

Data Retained Relating to CLEC Experience	**Data Retained Relating to BST Experience**
• Report month • Total trunk groups • Total trunk groups for which data is available • Trunk groups with blocking greater than the MBT • Percent of trunk groups with blocking greater than the MBT • Traffic identity, TGSN, end points, description, busy hour, valid study days, number reports	• Report month • Total trunk groups • Total trunk groups for which data is available • Trunk groups with blocking greater than the MBT • Percent of trunk groups with blocking greater than the MBT • Traffic identity, TGSN, end points, description, busy hour, valid study days, number reports

Retail Analog/Benchmark:

CLEC Trunk Blockage/BST Blockage
See Appendix D

Revision Date: 02/28/00 (tm)

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:
• Requests to augment previously completed arrangements • 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 Disaggregation:
• State, Region and further geographic disaggregation as required by State Commission Order (e.g. Metropolitan Service Area – MSA) • Virtual • Physical
Data Retained:
• Report period • Aggregate data
Retail Analog/Benchmark:
See Appendix D

Revision Date: 01/27/00 (tg)

COLLOCATION

Report/Measurement:

C-2. Average Arrangement Time

Definition:

Measures the average time from the receipt of a complete and accurate Bona Fide firm order (including receipt of appropriate fee) to the date BST completes the collocation arrangement.

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:

The clock starts on the date that BST receives a complete and accurate Bona 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.

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
- Physical

Data Retained:

- Report period
- Aggregate data

Retail Analog/Benchmark:

See Appendix D

Revision Date: 01/27/00 (tg)

COLLOCATION

Report/Measurement:
C-3. 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:
The clock starts on the date that BST receives a complete and accurate Bona Fide firm order accompanied by the appropriate fee. The clock stops on the date that BST completes the collocation arrangement.
Calculation:
% of Due Dates Missed = Σ (Number of Orders 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 • Physical
Data Retained:
• Report period • Aggregate data
Retail Analog/Benchmark:
90% ≤ Commit Date

Revision Date: 01/27/00 (tg)

Appendix A: Reporting Scope*

Standard Service Groupings	*Pre-Order, Ordering* ➢ Resale Residence ➢ Resale Business ➢ Resale Special ➢ Local Interconnection Trunks ➢ UNE ➢ UNE - Loops w/LNP *Provisioning* ➢ UNE Non-Design ➢ UNE Design ➢ Local Interconnection Trunks ➢ Resale Residence ➢ Resale Business ➢ Resale Design ➢ BST Trunks ➢ BST Residence Retail ➢ BST Business Retail ➢ BST Design Retail *Maintenance and Repair* ➢ Local Interconnection Trunks ➢ UNE Non-Design ➢ UNE Design ➢ Resale Residence ➢ Resale Business ➢ Resale Design ➢ BST Interconnection Trunks ➢ BST Residence Retail ➢ BST Business Retail ➢ BST Design Retail Local Interconnection Trunk Group Blockage ➢ BST CTTG Trunk Groups ➢ CLEC Trunk Groups

Appendix A: Reporting Scope*

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: **Maintenance Query Types:**	➢ Address ➢ Telephone Number ➢ Appointment Scheduling ➢ Customer Service Record ➢ Feature Availability
Report Levels	➢ CLEC RESH ➢ CLEC MSA ➢ CLEC State ➢ CLEC Region ➢ Aggregate CLEC State ➢ Aggregate CLEC Region ➢ BST State ➢ BST Region

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

Appendix B: Glossary of Acronyms and Terms

A	ACD	Automatic Call Distributor - A service that provides status monitoring of agents in a call center and routes high volume incoming telephone calls to available agents while collecting management information on both callers and attendants.
	AGGREGATE	Sum total of all items in like category, e.g. CLEC aggregate equals the sum total of all CLECs' data for a given reporting level.
	ASR	Access Service Request - A request for access service terminating delivery of carrier traffic into a Local Exchange Carrier's network.
	ATLAS	Application for Telephone Number Load Administration System - The BellSouth Operations System used to administer the pool of available telephone numbers and to reserve selected numbers from the pool for use on pending service requests/service orders.
	ATLASTN	ATLAS software contract for Telephone Number
	AUTO CLARIFICATION	The number of LSRs that were electronically rejected from LESOG and electronically returned to the CLEC for correction.
B	BILLING	The process and functions by which billing data is collected and by which account information is processed in order to render accurate and timely billing.
	BOCRIS	Business Office Customer Record Information System - A front-end presentation manager used by BellSouth organizations to access the CRIS database.
	BRC	Business Repair Center – The BellSouth Business Systems trouble receipt center which serves large business and CLEC customers.
	BST	BellSouth Telecommunications, Inc.
C	CKTID	A unique identifier for elements combined in a service configuration
	CLEC	Competitive Local Exchange Carrier
	CMDS	Centralized Message Distribution System - BellCore administered national system used to transfer specially formatted messages among companies.
	COFFI	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

C	COFIUSOC	COFFI software contract for feature/service information
	CRIS	Customer Record Information System - The BellSouth proprietary corporate database and billing system for non-access customers and services.
	CRSACCTS	CRIS software contract for CSR information
	CSR	Customer Service Record
	CTTG	Common Transport Trunk Group - Final trunk groups between BST & Independent end offices and the BST access tandems.
D	DESIGN	Design Service is defined as any Special or Plain Old Telephone Service Order which requires BellSouth Design Engineering Activities
	DISPOSITION & CAUSE	Types of trouble conditions, e.g. No Trouble Found, Central Office Equipment, Customer Premises Equipment, etc.
	DLETH	Display Lengthy Trouble History - A history report that gives all activity on a line record for trouble reports in LMOS
	DLR	Detail Line Record - All the basic information maintained on a line record in LMOS, e.g. name, address, facilities, features etc.
	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.
	DSAP	DOE (Direct Order Entry) Support Application - The BellSouth Operations System which assists a Service Representative or similar carrier agent in negotiating service provisioning commitments for non-designed services and UNEs.
	DSAPDDI	DSAP software contract for schedule information
E	E911	Provides callers access to the applicable emergency services bureau by dialing a 3-digit universal telephone number.
	EDI	Electronic Data Interchange - The computer-to-computer exchange of inter and/or intra company business documents in a public standard format.
F	FATAL REJECT	The number of LSRs that were electronically rejected from LEO, which checks to see of the LSR has all the required fields correctly populated
	FLOW-THROUGH	In the context of this document, LSRs submitted electronically via the CLEC mechanized ordering process that flow through to the BST OSS without manual or human intervention.
	FOC	Firm Order Confirmation - A notification returned to the CLEC confirming that the LSR has been received and accepted, including the specified commitment date.

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.
	HALCRIS	HAL software contract for CSR information
I	**ISDN**	Integrated Services Digital Network
K		
L	**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

G		
H	**HAL**	"Hands Off" Assignment Logic - Front end access and error resolution logic used in interfacing BellSouth Operations Systems such as ATLAS, BOCRIS, LMOS, PSIMS, RSAG and SOCS.
	HALCRIS	HAL software contract for CSR information
I	**ISDN**	Integrated Services Digital Network
K		
L	**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

N	NC	"No Circuits" - All circuits busy announcement
O	**OASIS**	Obtain Availability Services Information System - A BellSouth front-end processor, which acts as an interface between COFFI and RNS. This system takes the USOCs in COFFI and translates them to English for display in RNS.
	OASISBSN	OASIS software contract for feature/service
	OASISCAR	OASIS software contract for feature/service
	OASISLPC	OASIS software contract for feature/service
	OASISMTN	OASIS software contract for feature/service
	OASISNET	OASIS software contract for feature/service
	OASISOCP	OASIS software contract for feature/service
	ORDERING	The process and functions by which resale services or unbundled network elements are ordered from BellSouth as well as the process by which an LSR or ASR is placed with BellSouth.
	OSPCM	Outside Plant Contract Management System - Provides Scheduling Information.
	OSS	Operations Support System - A support system or database which is used to mechanize the flow or performance of work. The term is used to refer to the overall system consisting of hardware complex, computer operating system(s), and application which is used to provide the support functions.
	OUT OF SERVICE	Customer has no dial tone and cannot call out.
P	**POTS**	Plain Old Telephone Service
	PREDICTOR	The BellSouth Operations system which is used to administer proactive maintenance and rehabilitation activities on outside plant facilities, provide access to selected work groups (e.g. RRC & BRC) to Mechanized Loop Testing and switching system I/O ports, and provide certain information regarding the attributes and capabilities of outside plant facilities.
	PREORDERING	The process and functions by which vital information is obtained, verified, or validated prior to placing a service request.
	PROVISIONING	The process and functions by which necessary work is performed to activate a service requested via an LSR or ASR and to initiate the proper billing and accounting functions.
	PSIMS	Product/Service Inventory Management System - A BellSouth database Operations System which contains availability information on switching system features and capabilities and on BellSouth service availability. This database is used to verify the availability of a feature or service in an NXX prior to making a commitment to the customer.
	PSIMSORB	PSIMS software contract for feature/service

Appendix B: Glossary of Acronyms and Terms – Continued

Q		
R	RNS	Regional Negotiation System - An internal BellSouth service order entry system used by BellSouth Consumer Services to input service orders in BellSouth format.
	RRC	Residence Repair Center - The BellSouth Consumer Services trouble receipt center which serves residential customers.
	RSAG	Regional Street Address Guide - The BellSouth database, which contains street addresses validated to be accurate with state and local governments.
	RSAGADDR	RSAG software contract for address search
	RSAGTN	RSAG software contract for telephone number search
S	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 by service order that impacts 911/E911.
T	TAFI	Trouble Analysis Facilitation Interface - The BellSouth Operations System that supports trouble receipt center personnel in taking and handling customer trouble reports.
	TAG	Telecommunications Access Gateway – TAG was designed to provide an electronic interface, or machine-to-machine interface for the bi-directional flow of information between BellSouth's OSSs and participating CLECs.
	TN	Telephone Number
	TOTAL MANUAL FALLOUT	The number of LSRs which are entered electronically but require manual entering into a service order generator.
U	UNE	Unbundled Network Element
V		
W	WTN	A unique identifier for elements combined in a service configuration
X		
Y		
Z		
Σ		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.

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchma
Pre-Ordering	Percent Response Received within "X" seconds	Parity w/ retail where applicable.		
	OSS Interface Availability			99 5%
Ordering	Percent Flow-Through Service Request • Residence • Business • UNE			90% 80% 80%
	Percent Rejected Service Request	Diagnostic		Diagnost
	Reject Interval (Mechanized)	UD	UD	95% withi hrs
	• Reject Interval (Non-Mechanized and Partially Mechanized)	UD	UD	85% < 24
	Firm Order Confirmation Timeliness (Mechanized) (Non-Mechanized and Partially Mechanized)	UD	UD	95% withi hrs
	Speed of Answer in Ordering Center	X	X	85% <48
Provisioning	Mean Held Order Interval			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	

APPENDIX D Analogs and Benchmarks				
BST SQM Category	**MEASURES AND SUB-METRICS**	**RESALE** Retail Analogue	**UNES** Retail Analogue	Benchmar
	• 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 I
	• Resale Business			95% >=24 I
	• Resale Design			95% >=24 I
	• Resale PBX			95% >=24 I
	• Resale Centrex			95% >=24 I
	• Resale IDSN			95% >=24 I
	• UNE Loop and Port Combos			95% >=24 I
	• UNE 2w Loop with NP – Non-Design			95% >=24 I
	• UNE 2w Loop without NP – Non-Design			95% >=24 I
	• UNE Loop Other with NP Non-Design			95% >=24 I
	• UNE Loop Other without NP Non-Design			95% >=24 I
	• UNE Other Non Design			95% >=24 I
	• UNE 2w Loop with NP – Design			95% >=24 I
	• UNE 2w Loop without NP – Design			95% >=24 I
	• UNE Loop Other with NP – Design			95% >=24 I
	• UNE Loop Other without NP - Design			95% >=24 I
	• UNE Other Design			95% >=24 I
	• Local Interconnection Trunks			95% >=24 I
	% of Orders given jeopardy notice (Mechanized)			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchmar
	• 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		
	Percent Missed Installation Appointments			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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		
	Order Completion Interval			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchma
	• Resale IDSN	X		
	• 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		
	Average Completion Notice Interval – Resale POTS (Mech)			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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		
	Percent Provisioning Troubles within 30 Days			

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchma
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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		
	Total Service Order Cycle Time	Diag.	Diagnostic	Diagnost
Maintenance	**Customer Trouble Report Rate**			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	
	• UNE Loop Other – Design		Retail Design	
	• UNE Other Design		Retail Design	

APPENDIX D
Analogs and Benchmarks

SQM ory	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchma
	• Local Interconnection Trunks	X		
	Percent Missed Repair Appointments			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	
	• UNE Loop Other – Design		Retail Design	
	• UNE Other Design		Retail Design	
	• Local Interconnection Trunks	X		
	Maintenance Average Duration			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	
	• UNE Loop Other – Design		Retail Design	
	• UNE Other Design		Retail Design	
	• Local Interconnection Trunks	X		
	Percent Repeat Troubles within 30 Days			
	• Resale Residence	X		

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchma
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	
	• UNE Loop Other – Design		Retail Design	
	• UNE Other Design		Retail Design	
	• Local Interconnection Trunks	X		
	Out of Service > 24hrs			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	
	• UNE Loop Other – Design		Retail Design	
	• UNE Other Design		Retail Design	
	• Local Interconnection Trunks	X		
	OSS Interface Availability			
	• All systems except ECTA	X		
	• ECTA			99 5%
	OSS Response Interval and %			
	• TAFI (Front End)	X		

APPENDIX D Analogs and Benchmarks				
BST SQM Category	**MEASURES AND SUB-METRICS**	**RESALE** Retail Analogue	**UNES** Retail Analogue	Benchmark
	• CRIS, DLETH, DLR, OSPCM, LMOS, LMOSUP, MARCH, Predictor, SOCS, LNP (Parity by Design)	PBD		
	Average Answer Time – Repair Center	X		
Billing	**Invoice Accuracy**	X		
	Mean Time To Deliver Invoices	X		
	Usage Data Delivery Accuracy	X		
	Usage Data Delivery Timeliness	X		
	Usage Data Delivery Completeness	X		
	Mean Time to Deliver Usage	X		
Operator Services (Toll)	**Average Speed to Answer**	PBD		
	% Answered in "X" Seconds	PBD		
Directory Assistance	**Average Speed to Answer**	PBD		
	% Answered in "X" Seconds	PBD		
E911	**Timelinesss**	PBD		
	Accuracy	PBD		
	Mean Interval	PBD		
Trunk Group Performance (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**			
	Percent Missed Installation Appointments		Retail Residence and Business	
	FOC Mechanized			95% - 4 hou
	% Reject Service Request **Average Reject Interval Mechanized**		Diagnostic	95% - 1 ho
	TSOC		Diagnostic	
	% Flow Through			80%

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchmar
Customer Coordinated Conversions	**Coordinated Customer Conversions – UNE Loop**			95% ≤ 15m
	Coordinated Customer Conversions – LNP			95% ≤ 15
Collocation +	**% of Due Dates Missed**			90% ≤ Con Date
	Average Response Time		FL PSC is addressing this in generic docket	
+A contract with each CLEC required.	**Average Arrangement Time**		FL PSC is addressing this in generic docket	

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

Note2: 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.

Note3: Analogs and Benchmarks will be re-evaluated periodically, at least once a year, to validate applicability.

EXHBIT B

VSEEMIII TIER-1 SUBMETRICS

- FOC Timeliness (Mechanized only)
- Reject Interval (Mechanized only)
- Order Completion Interval (Dispatch only) – Resale POTS
- Order Completion Interval (Dispatch only) – Resale Design
- Order Completion Interval (No Dispatch only) – UNE Loop and Port Combos
- Order Completion Interval ('w' code orders, Dispatch only) – UNE Loops
- Order Completion Interval (Dispatch only) – IC Trunks
- Percent Missed Installation Appointments – Resale POTS
- Percent Missed Installation Appointments – Resale Design
- Percent Missed Installation Appointments – UNE Loop and Port Combos
- Percent Missed Installation Appointments – UNE Loops
- Percent Provisioning Troubles within 4 Days - Resale POTS
- Percent Provisioning Troubles within 4 Days - Resale Design
- Percent Provisioning Troubles within 4 Days - UNE Loop and Port Combos
- Percent Provisioning Troubles within 4 Days - UNE Loops
- Customer Trouble Report Rate – Resale POTS
- Customer Trouble Report Rate – Resale Design
- Customer Trouble Report Rate - UNE Loop and Port Combos
- Customer Trouble Report Rate - UNE Loops
- Percent Missed Repair Appointments – Resale POTS
- Percent Missed Repair Appointments - Resale Design
- Percent Missed Repair Appointments - UNE Loop and Port Combos
- Percent Missed Repair Appointments - UNE Loops
- Maintenance Average Duration – Resale POTS
- Maintenance Average Duration – Resale Design
- Maintenance Average Duration - UNE Loop and Port Combos
- Maintenance Average Duration - UNE Loops
- Maintenance Average Duration – IC Trunks
- Percent Repeat Troubles within 30 Days – Resale POTS
- Percent Repeat Troubles within 30 Days – Resale Design
- Percent Repeat Troubles within 30 Days - UNE Loop and Port Combos
- Percent Repeat Troubles within 30 Days - UNE Loops
- Percent Trunk Blockage
- LNP Disconnect Timeliness
- LNP Percent Missed Installation Appointment
- Coordinated Customer Conversions for UNE Loops
- Coordinated Customer Conversions for LNP
- Percent Missed Collocation Due Dates

VSEEMIII TIER-2 SUBMETRICS

- Percent Response Received within "X" seconds – Pre-Order OSS
- OSS Interface Availability
- Order Process Percent Flow-Through (Mechanized only)
- Order Completion Interval (Dispatch only) – Resale POTS
- Order Completion Interval (Dispatch only) – Resale Design
- Order Completion Interval (No Dispatch only) – UNE Loop and Port Combos
- Order Completion Interval ('w' code orders, Dispatch only) – UNE Loops
- Order Completion Interval (Dispatch only) – IC Trunks
- Percent Missed Installation Appointments – Resale POTS
- Percent Missed Installation Appointments – Resale Design
- Percent Missed Installation Appointments – UNE Loop and Port Combos
- Percent Missed Installation Appointments – UNE Loops
- Percent Provisioning Troubles within 4 Days - Resale POTS
- Percent Provisioning Troubles within 4 Days - Resale Design
- Percent Provisioning Troubles within 4 Days - UNE Loop and Port Combos
- Percent Provisioning Troubles within 4 Days - UNE Loops
- Customer Trouble Report Rate – Resale POTS
- Customer Trouble Report Rate – Resale Design
- Customer Trouble Report Rate - UNE Loop and Port Combos
- Customer Trouble Report Rate - UNE Loops
- Percent Missed Repair Appointments – Resale POTS
- Percent Missed Repair Appointments - Resale Design
- Percent Missed Repair Appointments - UNE Loop and Port Combos
- Percent Missed Repair Appointments - UNE Loops
- Maintenance Average Duration – Resale POTS
- Maintenance Average Duration – Resale Design
- Maintenance Average Duration - UNE Loop and Port Combos
- Maintenance Average Duration - UNE Loops
- Maintenance Average Duration – IC Trunks
- Percent Repeat Troubles within 30 Days – Resale POTS
- Percent Repeat Troubles within 30 Days – Resale Design
- Percent Repeat Troubles within 30 Days - UNE Loop and Port Combos
- Percent Repeat Troubles within 30 Days - UNE Loops
- Billing Timeliness
- Billing Accuracy
- Usage Data Delivery Timeliness
- Usage Data Delivery Accuracy
- Percent Trunk Blockage
- LNP Disconnect Timeliness
- LNP Percent Missed Installation Appointment
- Coordinated Customer Conversions for UNE Loops
- Coordinated Customer Conversions for LNP
- Percent Missed Collocation Due Dates

VSEEMIII TIER-3 SUBMETRICS

- Percent Missed Installation Appointments – Resale POTS
- Percent Missed Installation Appointments – Resale Design
- Percent Missed Installation Appointments – UNE Loop and Port Combos
- Percent Missed Installation Appointments – UNE Loops
- Percent Missed Repair Appointments – Resale POTS
- Percent Missed Repair Appointments - Resale Design
- Percent Missed Repair Appointments - UNE Loop and Port Combos
- Percent Missed Repair Appointments - UNE Loops
- Billing Timeliness
- Billing Accuracy
- Percent Trunk Blockage
- Percent Missed Collocation Due Dates

VSEEM III	MEASURES AND SUB-METRICS	RETAIL ANALOGUE	BENCH MARK
		Resale (x) and UNEs	
Pre-Ordering	Percent Response Received within "X" seconds	Retail Analogue + 4 sec	90%
	OSS Interface Availability	x	95% - hrs
Ordering	Percent Flow-Through Service Request (Fully Mechanized only)		95% - hrs
	Firm Order Confirmation Timeliness (Mechanized only)		
	Reject Interval (Mechanized only)		
Provisioning	Order Completion Interval (Dispatch only) – Resale POTS	x	
	Order Completion Interval (Dispatch only) – Resale Design	x	
	Order Completion Interval (No Dispatch only) – UNE Loop & Port Combos	Retail Residence and Business	
	Order Completion Interval (Dispatch only) – UNE Loops	Design: Retail Design Dispatch 'w' Orders Non-Design: Retail Res, Bus Dispatch 'w' Orders	
	Order Completion Interval (Dispatch only) – IC Trunks	x	
	Percent Missed Installation Appointments – Resale POTS	x	
	Percent Missed Installation Appointments – Resale Design	x	
	Percent Missed Installation Appointments – UNE Loop and Port Combos	Retail Residence and Business	
	Percent Missed Installation Appointments – UNE Loops	Design: Retail Design [1] Non-Design: Retail Res, Bus [1]	
	Percent Provisioning Troubles within 4 Days - Resale POTS	x	
	Percent Provisioning Troubles within 4 Days - Resale Design	x	
	Percent Provisioning Troubles within 4 Days - UNE Loop and Port Combos	Retail Residence and Business	
	Percent Provisioning Troubles within 4 Days - UNE Loops	Design: Retail Design [1] Non-Design: Retail Res, Bus [1]	
Maintenance	Customer Trouble Report Rate – Resale POTS	x	
	Customer Trouble Report Rate – Resale Design	x	
	Customer Trouble Report Rate - UNE Loop and Port Combos	Retail Residence and Business	
	Customer Trouble Report Rate - UNE Loops	Design: Retail Design [1] Non-Design: Retail Res, Bus [1]	
	Percent Missed Repair Appointments – Resale POTS	x	
	Percent Missed Repair Appointments - Resale Design	x	
	Percent Missed Repair Appointments - UNE Loop and Port Combos	Retail Residence and Business	
	Percent Missed Repair Appointments - UNE Loops	Design: Retail Design [1] Non-Design: Retail Res, Bus [1]	

NOTES: [1] The retail analog for UNE Non-Design is the average of all retail residence and retail business transactions for the particular month The retail
analog for UNE Design is calculated similarly using retail residence, business and design results.
[2] UD = Under Development

Maintenance Continued	Maintenance Average Duration – Resale POTS	x	
	Maintenance Average Duration – Resale Design	x	
	Maintenance Average Duration - UNE Loop and Port Combos	Retail Residence and Business	
	Maintenance Average Duration - UNE Loops	Design: Retail Design [1] Non-Design: Retail Res, Bus [1]	
	Maintenance Average Duration – IC Trunks	x	
	Percent Repeat Troubles within 30 Days – Resale POTS	x	
	Percent Repeat Troubles within 30 Days – Resale Design	x	
	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 [1] Non-Design: Retail Res, Bus [1]	
Billing	Invoice Accuracy	x	
	Mean Time To Deliver Invoices	x	
	Usage Data Delivery Accuracy	x	
	Usage Data Delivery Timeliness	x	
Trunk Blockage	Trunk Group Service Report (Percent Trunk Blockage)	x	
LNP	Average Disconnect Timeliness Interval		UD [2]
	Percent Missed Installation Appointments		UD [2]
CC Conversions	Coordinated Customer Conversions – UNE Loop		95% < 15mm
	Coordinated Customer Conversions – LNP		95% < 15 mm
Collocation	% of Due Dates Missed		≤ 10%

NOTES: [1] The retail analog for UNE Non-Design is the average of all retail residence and retail business transactions for the particular month The retail
analog for UNE Design is calculated similarly using retail residence, business and design results.
[2] UD = Under Development

EXHIBIT C

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.

- Like-to-Like Comparisons. When possible, data should be compared at appropriate levels, e.g. wire center, time of month, dispatched, residential, new orders. The testing process should:
  - Identify variables that may affect the performance measure.
  - Record these important confounding covariates.
  - Adjust for the observed covariates in order to remove potential biases and to make the CLEC and the ILEC units as comparable as possible.
- Aggregate Level Test Statistic. Each performance measure of interest should be summarized by one overall test statistic giving the decision maker a rule that determines whether a statistically significant difference exists. The test statistic should have the following properties.
  - The method should provide a single overall index, on a standard scale.
  - If entries in comparison cells are exactly proportional over a covariate, the aggregated index should be very nearly the same as if comparisons on the covariate had not been done.
  - The contribution of each comparison cell should depend on the number of observations in the cell.
  - Cancellation between comparison cells should be limited.
  - The index should be a continuous function of the observations.
- Production Mode Process. The decision system must be developed so that it does not require intermediate manual intervention, i.e. the process must be a "black box."
  - Calculations are well defined for possible eventualities.
  - The decision process is an algorithm that needs no manual intervention.
  - Results should be arrived at in a timely manner.
  - The system must recognize that resources are needed for other performance measure-related processes that also must be run in a timely manner.
  - The system should be auditable, and adjustable over time.
- Balancing. The testing methodology should balance Type I and Type II Error probabilities.
  - P(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.

In the following sections we describe appropriate testing processes that adhere as much as possible to the testing principles.

Measurement Types

The performance measures that will undergo testing are of three types:

1) means
2) proportions, and
3) rates

While all three have similar characteristics (a proportion is the average of a measure that takes on only the values of 0 or 1), a proportion or rate is derived from count data while a mean is generally an average of interval measurements.

II. Testing Methodology – The Truncated Z

Many covariates are chosen in order to provide deep comparison levels. In each comparison cell, a Z statistic is calculated. The form of the Z statistic may vary depending on the performance measure, but it should be distributed approximately as a standard normal, with mean zero and variance equal to one. Assuming that the test statistic is derived so that it is negative when the performance for the CLEC is worse than for the ILEC, a positive truncation is done – i.e. if the result is negative it is left alone, if the result is positive it is changed to zero. A weighted average of the truncated statistics is calculated where a cell weight depends on the volume of BST and CLEC orders in the cell. The weighted average is re-centered by the theoretical mean of a truncated distribution, and this is divided by the standard error of the weighted average. The standard error is computed assuming a fixed effects model.

Proportion Measures

For performance measures that are calculated as a proportion, in each adjustment cell, the truncated Z and the moments for the truncated Z can be calculated in a direct manner. In adjustment cells where proportions are not close to zero or one, and where the sample sizes are reasonably large, a normal approximation can be used. In this case, the moments for the truncated Z come directly from properties of the standard normal distribution. If the normal approximation is not appropriate, then the Z statistic is calculated from the hypergeometric distribution. In this case, the moments of the truncated Z are calculated exactly using the hypergeometric probabilities.

Rate Measures

The truncated Z methodology for rate measures has the same general structure for calculating the Z in each cell as proportion measures. For a rate measure, there are a fixed number of circuits or units for the CLEC, n_{2j} and a fixed number of units for BST, n_{1j}. Suppose that the performance measure is a "trouble rate." The modeling assumption is that the occurrence of a trouble is independent between units and the number of troubles in n circuits follows a Poisson distribution with mean 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.

APPENDIX
TECHNICAL DESCRIPTION

We start by assuming that any necessary trimming 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_{1j} = the number of ILEC transactions in cell j

n_{2j} = the number of CLEC transactions in cell j

n_j = the total number transactions in cell j; $n_{1j} + n_{2j}$

X_{1jk} = individual ILEC transactions in cell j; $k = 1,\ldots, n_{1j}$

X_{2jk} = individual CLEC transactions in cell j; $k = 1,\ldots, n_{2j}$

Y_{jk} = individual transaction (both ILEC and CLEC) in cell j

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

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

For Mean Performance Measures the following additional notation is needed.

$\overline{X}_{1j}$ = 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

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

y_{jk} = a random sample of size n_{2j} from the set of $Y_{j1},\mathrm{K}\ ,Y_{jn_j}$; $k = 1,\ldots,n_{2j}$

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

$$= \binom{n_j}{n_{1j}}$$

The exact parity test is the permutation test based on the "modified Z" statistic. For large samples, we can avoid permutation calculations since this statistic will be normal (or Student's t) to a good approximation. For small samples, where we cannot avoid permutation calculations, we have found that the difference between "modified Z" and the textbook "pooled Z" is negligible. We therefore propose to use the permutation test based on pooled Z for small samples. This decision speeds up the permutation computations considerably, because for each permutation we need only compute the sum of the CLEC sample values, and not the pooled statistic itself.

A permutation probability mass function distribution for [illegible] the "pooled Z" can be written as

$$PM(t) = P(\sum_{k} y_{jk} = t) = \frac{\textit{the number of samples that sum to } t}{M_j}.$$

and the corresponding cumulative permutation distribution is

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

For Proportion Performance Measures the following notation is defined

a_{1j}= the number of ILEC cases possessing an attribute of interest in cell j

a_{2j}= the number of CLEC cases possessing an attribute of interest in cell j

a_j = the number of cases possessing an attribute of interest in cell j; $a_{1j}+ a_{2j}$

The exact distribution for a parity test is the hypergeometric distribution. The hypergeometric probability mass function distribution for cell j is

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

and the cumulative hypergeometric distribution is

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

For Rate Measures, the notation needed is defined as

b_{1j} = the number of ILEC base elements in cell j

b_{2j} = the number of CLEC base elements in cell j

b_j = the total number of base elements in cell j; $b_{1j}+ b_{2j}$

$\hat{p}_{1j}$ = the ILEC sample rate of cell j; n_{1j}/b_{1j}

$\hat{p}_{2j}$ = the CLEC sample rate of cell j; n_{2j}/b_{2j}

q_j = the relative proportion of CLEC elements for cell j; b_{2j}/b_j

The exact distribution for a parity test is the binomial distribution. The binomial probability mass function distribution for cell j is .

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

and the cumulative binomial distribution is

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

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 Measure

$$W_j = \sqrt{\frac{n_{1j} n_{2j}}{n_j}}$$

Proportion Measure

$$W_j = \sqrt{\frac{n_{2j} n_{1j}}{n_j} \cdot \frac{a_j}{n_j} \cdot \left(1 - \frac{a_j}{n_j}\right)}$$

Rate Measure

$$W_j = \sqrt{\frac{b_{1j} b_{2j}}{b_j} \cdot \frac{n_j}{b_j}}$$

2. **In each cell, calculate a Z value, Z_j.** A Z statistic with mean 0 and variance 1 is needed for each cell.

- If $W_j = 0$, set $Z_j = 0$.
- Otherwise, the actual Z statistic calculation depends on the type of performance measure.

Mean Measure

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

where α is determine by the following algorithm.

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

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

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

$$T_j = t_j + \frac{g}{6}\left(\frac{n_{1j} + 2n_{2j}}{\sqrt{n_{1j}\, n_{2j}(n_{1j} + n_{2j})}}\right)\left(t_j^2 + \frac{n_{2j} - n_{1j}}{2n_{1j} + n_{2j}}\right).$$

where

$$t_j = \frac{\bar{X}_{1j} - \bar{X}_{2j}}{s_{1j}\sqrt{\frac{1}{n_{1j}} + \frac{1}{n_{2j}}}}$$

and the coefficient g is an estimate of the skewness of the parent population, which we assume is the same in all cells. It can be estimated from the ILEC values in the largest cells. This needs to be done only once for each measure. We have found that attempting to estimate this skewness parameter for each cell separately leads to excessive variability in the "adjusted" t. We therefore use a single compromise value in all cells.

Note, that t_j is the "modified Z" statistic. The statistic T_j is a "modified Z" corrected for the skewness of the ILEC data.

If $\min(n_{1j}, n_{2j}) \leq 6$, and

a) $M_j \leq 1{,}000$ (the total number of distinct pairs of samples of size n_{1j} and n_{2j} is 1,000 or less).

- Calculate the sample sum for all possible samples of size n_{2j}.
- Rank the sample sums from smallest to largest. Ties are dealt by using average ranks.
- Let R_0 be the rank of the observed sample sum with respect all the sample sums.

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

b) $M_j > 1{,}000$

- Draw a random sample of 1,000 sample sums from the permutation distribution.
- Add the observed sample sum to the list. There is a total of 1001 sample sums. Rank the sample sums from smallest to largest. Ties are dealt by using average ranks.
- Let R_0 be the rank of the observed sample sum with respect all the sample sums.

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

Proportion Measure

$$Z_j = \frac{n_j\, a_{1j} - n_{1j}\, a_j}{\sqrt{\frac{n_{1j}\, n_{2j}\, a_j\, (n_j - a_j)}{n_j - 1}}}.$$

Rate Measure

$$Z_j = \frac{n_{1j} - n_j q_j}{\sqrt{n_j q_j (1 - q_j)}}.$$

3. **Obtain a truncated Z value for each cell, Z_j^*.** To limit the amount of cancellation that takes place between cell results during aggregation, cells whose results suggest possible favoritism are left alone. Otherwise the cell statistic is set to zero. This means that positive equivalent Z values are set to 0, and negative values are left alone. Mathematically, this is written as

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

4. **Calculate the theoretical mean and variance of the truncated statistic under the null hypothesis of parity.** $E(Z_j^* | H_0)$ and $\mathrm{Var}(Z_j^* | H_0)$. 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 $\mathrm{Var}(Z_j^* | H_0)$ 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, or $\min(n_{1j}, n_{2j}) > 15$ and $n_j q_j (1 - q_j) > 9$ for a rate measure then

$$E(Z_j^* | H_0) = -\frac{1}{\sqrt{2\pi}}, \text{ and}$$

$$\mathrm{Var}(Z_j^* | H_0) = \frac{1}{2} - \frac{1}{2\pi}.$$

   - 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.

$$E(Z_j^* | H_0) = \sum_i \theta_{ji} z_{ji}, \text{ and}$$

$$\mathrm{Var}(Z_j^* | H_0) = \sum_i \theta_{ji} z_{ji}^2 - \left[E(Z_j^* | H_0)\right]^2.$$

The actual values of the z's and θ's depends on the type of measure, and the sums in the equations are over all possible values of the index i.

Mean Measure

$$N_j = \min(M_j, 1{,}000), \quad i = 1, K, N_j$$

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

$$\theta_j = \frac{1}{N_j}$$

Proportion Measure

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

$$\theta_{ji} = HG(i)$$

Rate Measure

$$z_{ji} = \min\left\{0, \frac{i - n_j\, q_j}{\sqrt{n_j\, q_j (1 - q_j)}}\right\}, \quad i = 0, K, n_j$$

$$\theta_{ji} = BN(i)$$

5. **Calculate the aggregate test statistic, Z^T.**

$$Z^T = \frac{\sum_j W_j Z_j^* - \sum_j W_j E(Z_j^* \mid H_0)}{\sqrt{\sum_j W_j^2 \, Var(Z_j^* \mid H_0)}}$$

The Balancing Critical Value

There are four key elements of the statistical testing process:

1. **the null hypothesis, H_0, that parity exists between ILEC and CLEC services**
2. **the alternative hypothesis, H_a, that the ILEC is giving better service to its own customers**
3. **the Truncated Z test statistic, Z^T, and**
4. **a critical value, *c***

The decision rule[1] is

- **If $Z^T < c$ then accept H_a.**
- **If $Z^T \geq c$ then accept H_0.**

There are two types of error possible when using such a decision rule:

[1] 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.

Appendix B: Glossary of Acronyms and Terms

A	ACD	Automatic Call Distributor - A service that provides status monitoring of agents in a call center and routes high volume incoming telephone calls to available agents while collecting management information on both callers and attendants.
	AGGREGATE	Sum total of all items in like category, e.g. CLEC aggregate equals the sum total of all CLECs' data for a given reporting level.
	ASR	Access Service Request - A request for access service terminating delivery of carrier traffic into a Local Exchange Carrier's network.
	ATLAS	Application for Telephone Number Load Administration System - The BellSouth Operations System used to administer the pool of available telephone numbers and to reserve selected numbers from the pool for use on pending service requests/service orders.
	ATLASTN	ATLAS software contract for Telephone Number
	AUTO CLARIFICATION	The number of LSRs that were electronically rejected from LESOG and electronically returned to the CLEC for correction.
B	BILLING	The process and functions by which billing data is collected and by which account information is processed in order to render accurate and timely billing.
	BOCRIS	Business Office Customer Record Information System - A front-end presentation manager used by BellSouth organizations to access the CRIS database.
	BRC	Business Repair Center – The BellSouth Business Systems trouble receipt center which serves large business and CLEC customers.
	BST	BellSouth Telecommunications, Inc.
C	CKTID	A unique identifier for elements combined in a service configuration
	CLEC	Competitive Local Exchange Carrier
	CMDS	Centralized Message Distribution System - BellCore administered national system used to transfer specially formatted messages among companies.
	COFFI	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

C	COFIUSOC	COFFI software contract for feature service information
	CRIS	Customer Record Information System - The BellSouth proprietary corporate database and billing system for non-access customers and services.
	CRSACCTS	CRIS software contract for CSR information
	CSR	Customer Service Record
	CTTG	Common Transport Trunk Group - Final trunk groups between BST & Independent end offices and the BST access tandems.
D	DESIGN	Design Service is defined as any Special or Plain Old Telephone Service Order which requires BellSouth Design Engineering Activities
	DISPOSITION & CAUSE	Types of trouble conditions, e.g. No Trouble Found, Central Office Equipment, Customer Premises Equipment, etc.
	DLETH	Display Lengthy Trouble History - A history report that gives all activity on a line record for trouble reports in LMOS
	DLR	Detail Line Record - All the basic information maintained on a line record in LMOS, e.g. name, address, facilities, features etc.
	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.
	DSAP	DOE (Direct Order Entry) Support Application - The BellSouth Operations System which assists a Service Representative or similar carrier agent in negotiating service provisioning commitments for non-designed services and UNEs.
	DSAPDDI	DSAP software contract for schedule information
E	E911	Provides callers access to the applicable emergency services bureau by dialing a 3-digit universal telephone number.
	EDI	Electronic Data Interchange - The computer-to-computer exchange of inter and/or intra company business documents in a public standard format.
F	FATAL REJECT	The number of LSRs that were electronically rejected from LEO, which checks to see of the LSR has all the required fields correctly populated
	FLOW-THROUGH	In the context of this document, LSRs submitted electronically via the CLEC mechanized ordering process that flow through to the BST OSS without manual or human intervention.
	FOC	Firm Order Confirmation - A notification returned to the CLEC confirming that the LSR has been received and accepted, including the specified commitment date.

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.
	HALCRIS	HAL software contract for CSR information
I	ISDN	Integrated Services Digital Network
K		
L	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

N	NC	"No Circuits" - All circuits busy announcement
O	**OASIS**	Obtain Availability Services Information System - A BellSouth front-end processor, which acts as an interface between COFFI and RNS. This system takes the USOCs in COFFI and translates them to English for display in RNS.
	OASISBSN	OASIS software contract for feature/service
	OASISCAR	OASIS software contract for feature/service
	OASISLPC	OASIS software contract for feature/service
	OASISMTN	OASIS software contract for feature/service
	OASISNET	OASIS software contract for feature/service
	OASISOCP	OASIS software contract for feature/service
	ORDERING	The process and functions by which resale services or unbundled network elements are ordered from BellSouth as well as the process by which an LSR or ASR is placed with BellSouth.
	OSPCM	Outside Plant Contract Management System - Provides Scheduling Information.
	OSS	Operations Support System - A support system or database which is used to mechanize the flow or performance of work. The term is used to refer to the overall system consisting of hardware complex, computer operating system(s), and application which is used to provide the support functions.
	OUT OF SERVICE	Customer has no dial tone and cannot call out.
P	**POTS**	Plain Old Telephone Service
	PREDICTOR	The BellSouth Operations system which is used to administer proactive maintenance and rehabilitation activities on outside plant facilities, provide access to selected work groups (e.g. RRC & BRC) to Mechanized Loop Testing and switching system I/O ports, and provide certain information regarding the attributes and capabilities of outside plant facilities.
	PREORDERING	The process and functions by which vital information is obtained, verified, or validated prior to placing a service request.
	PROVISIONING	The process and functions by which necessary work is performed to activate a service requested via an LSR or ASR and to initiate the proper billing and accounting functions.
	PSIMS	Product/Service Inventory Management System - A BellSouth database Operations System which contains availability information on switching system features and capabilities and on BellSouth service availability. This database is used to verify the availability of a feature or service in an NXX prior to making a commitment to the customer.
	PSIMSORB	PSIMS software contract for feature/service

Appendix B: Glossary of Acronyms and Terms – Continued

Q		
R	RNS	Regional Negotiation System - An internal BellSouth service order entry system used by BellSouth Consumer Services to input service orders in BellSouth format.
	RRC	Residence Repair Center - The BellSouth Consumer Services trouble receipt center which serves residential customers.
	RSAG	Regional Street Address Guide - The BellSouth database, which contains street addresses validated to be accurate with state and local governments.
	RSAGADDR	RSAG software contract for address search
	RSAGTN	RSAG software contract for telephone number search
S	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 by service order that impacts 911/E911.
T	TAFI	Trouble Analysis Facilitation Interface - The BellSouth Operations System that supports trouble receipt center personnel in taking and handling customer trouble reports.
	TAG	Telecommunications Access Gateway – TAG was designed to provide an electronic interface, or machine-to-machine interface for the bi-directional flow of information between BellSouth's OSSs and participating CLECs.
	TN	Telephone Number
	TOTAL MANUAL FALLOUT	The number of LSRs which are entered electronically but require manual entering into a service order generator.
U	UNE	Unbundled Network Element
V		
W	WTN	A unique identifier for elements combined in a service configuration
X		
Y		
Z		
Σ		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.

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchm.
Pre-Ordering	**Percent Response Received within "X" seconds**	Parity w/ retail where applicable.		
	OSS Interface Availability			99 5%
Ordering	**Percent Flow-Through Service Request** • Residence • Business • UNE			90% 80% 80%
	Percent Rejected Service Request	Diagnostic		Diagnost
	Reject Interval (Mechanized)	UD	UD	95% with hrs
	• Reject Interval (Non-Mechanized and Partially Mechanized)	UD	UD	85% < 24
	Firm Order Confirmation Timeliness (Mechanized) (Non-Mechanized and Partially Mechanized)	UD	UD	95% with hrs
	Speed of Answer in Ordering Center	X	X	85% <48
Provisioning	**Mean Held Order Interval**			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchmar
	• 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 I
	• Resale Business			95% >=24 I
	• Resale Design			95% >=24 I
	• Resale PBX			95% >=24 I
	• Resale Centrex			95% >=24 I
	• Resale IDSN			95% >=24 I
	• UNE Loop and Port Combos			95% >=24 I
	• UNE 2w Loop with NP – Non-Design			95% >=24 I
	• UNE 2w Loop without NP – Non-Design			95% >=24 I
	• UNE Loop Other with NP Non-Design			95% >=24 I
	• UNE Loop Other without NP Non-Design			95% >=24 I
	• UNE Other Non Design			95% >=24 I
	• UNE 2w Loop with NP – Design			95% >=24 I
	• UNE 2w Loop without NP – Design			95% >=24 I
	• UNE Loop Other with NP – Design			95% >=24 I
	• UNE Loop Other without NP - Design			95% >=24 I
	• UNE Other Design			95% >=24 I
	• Local Interconnection Trunks			95% >=24 I
	% of Orders given jeopardy notice (Mechanized)			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	

APPENDIX D Analogs and Benchmarks				
BST SQM Category	**MEASURES AND SUB-METRICS**	**RESALE** Retail Analogue	**UNES** Retail Analogue	Benchma
	• 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		
	Percent Missed Installation Appointments			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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		
	Order Completion Interval			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		

APPENDIX D Analogs and Benchmarks				
BST SQM Category	**MEASURES AND SUB-METRICS**	**RESALE** Retail Analogue	**UNES** Retail Analogue	Benchm
	• Resale IDSN	X		
	• 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		
	Average Completion Notice Interval – Resale POTS (Mech)			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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		
	Percent Provisioning Troubles within 30 Days			

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchm.
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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		
	Total Service Order Cycle Time	Diag.	Diagnostic	Diagnost
Maintenance	**Customer Trouble Report Rate**			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	
	• UNE Loop Other – Design		Retail Design	
	• UNE Other Design		Retail Design	

APPENDIX D
Analogs and Benchmarks

SQM ory	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchma
	• Local Interconnection Trunks	X		
	Percent Missed Repair Appointments			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	
	• UNE Loop Other – Design		Retail Design	
	• UNE Other Design		Retail Design	
	• Local Interconnection Trunks	X		
	Maintenance Average Duration			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	
	• UNE Loop Other – Design		Retail Design	
	• UNE Other Design		Retail Design	
	• Local Interconnection Trunks	X		
	Percent Repeat Troubles within 30 Days			
	• Resale Residence	X		

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchm.
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	
	• UNE Loop Other – Design		Retail Design	
	• UNE Other Design		Retail Design	
	• Local Interconnection Trunks	X		
	Out of Service > 24hrs			
	• Resale Residence	X		
	• Resale Business	X		
	• Resale Design	X		
	• Resale PBX	X		
	• Resale Centrex	X		
	• Resale IDSN	X		
	• 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	
	• UNE Loop Other – Design		Retail Design	
	• UNE Other Design		Retail Design	
	• Local Interconnection Trunks	X		
	OSS Interface Availability			
	• All systems except ECTA	X		
	• ECTA			99.5%
	OSS Response Interval and %			
	• TAFI (Front End)	X		

APPENDIX D
Analogs and Benchmarks

BST SQM Category	MEASURES AND SUB-METRICS	RESALE Retail Analogue	UNES Retail Analogue	Benchma
	• CRIS, DLETH, DLR, OSPCM, LMOS, LMOSUP, MARCH, Predictor, SOCS, LNP (Parity by Design)	PBD		
	Average Answer Time – Repair Center	X		
Billing	**Invoice Accuracy**	X		
	Mean Time To Deliver Invoices	X		
	Usage Data Delivery Accuracy	X		
	Usage Data Delivery Timeliness	X		
	Usage Data Delivery Completeness	X		
	Mean Time to Deliver Usage	X		
Operator Services (Toll)	**Average Speed to Answer**	PBD		
	% Answered in "X" Seconds	PBD		
Directory Assistance	**Average Speed to Answer**	PBD		
	% Answered in "X" Seconds	PBD		
E911	**Timeliness**	PBD		
	Accuracy	PBD		
	Mean Interval	PBD		
Trunk Group Performance (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**			
	Percent Missed Installation Appointments		Retail Residence and Business	
	FOC Mechanized			95% - 4 ho
	% Reject Service Request		Diagnostic	
	Average Reject Interval Mechanized			95% - 1 ho
	TSOC		Diagnostic	
	% Flow Through			80%

EXHBIT B

VSEEMIII TIER-1 SUBMETRICS

- FOC Timeliness (Mechanized only)
- Reject Interval (Mechanized only)
- Order Completion Interval (Dispatch only) – Resale POTS
- Order Completion Interval (Dispatch only) – Resale Design
- Order Completion Interval (No Dispatch only) – UNE Loop and Port Combos
- Order Completion Interval ('w' code orders, Dispatch only) – UNE Loops
- Order Completion Interval (Dispatch only) – IC Trunks
- Percent Missed Installation Appointments – Resale POTS
- Percent Missed Installation Appointments – Resale Design
- Percent Missed Installation Appointments – UNE Loop and Port Combos
- Percent Missed Installation Appointments – UNE Loops
- Percent Provisioning Troubles within 4 Days - Resale POTS
- Percent Provisioning Troubles within 4 Days - Resale Design
- Percent Provisioning Troubles within 4 Days - UNE Loop and Port Combos
- Percent Provisioning Troubles within 4 Days - UNE Loops
- Customer Trouble Report Rate – Resale POTS
- Customer Trouble Report Rate – Resale Design
- Customer Trouble Report Rate - UNE Loop and Port Combos
- Customer Trouble Report Rate - UNE Loops
- Percent Missed Repair Appointments – Resale POTS
- Percent Missed Repair Appointments - Resale Design
- Percent Missed Repair Appointments - UNE Loop and Port Combos
- Percent Missed Repair Appointments - UNE Loops
- Maintenance Average Duration – Resale POTS
- Maintenance Average Duration – Resale Design
- Maintenance Average Duration - UNE Loop and Port Combos
- Maintenance Average Duration - UNE Loops
- Maintenance Average Duration – IC Trunks
- Percent Repeat Troubles within 30 Days – Resale POTS
- Percent Repeat Troubles within 30 Days – Resale Design
- Percent Repeat Troubles within 30 Days - UNE Loop and Port Combos
- Percent Repeat Troubles within 30 Days - UNE Loops
- Percent Trunk Blockage
- LNP Disconnect Timeliness
- LNP Percent Missed Installation Appointment
- Coordinated Customer Conversions for UNE Loops
- Coordinated Customer Conversions for LNP
- Percent Missed Collocation Due Dates

VSEEMIII TIER-2 SUBMETRICS

- Percent Response Received within "X" seconds – Pre-Order OSS
- OSS Interface Availability
- Order Process Percent Flow-Through (Mechanized only)
- Order Completion Interval (Dispatch only) – Resale POTS
- Order Completion Interval (Dispatch only) – Resale Design
- Order Completion Interval (No Dispatch only) – UNE Loop and Port Combos
- Order Completion Interval ('w' code orders, Dispatch only) – UNE Loops
- Order Completion Interval (Dispatch only) – IC Trunks
- Percent Missed Installation Appointments – Resale POTS
- Percent Missed Installation Appointments – Resale Design
- Percent Missed Installation Appointments – UNE Loop and Port Combos
- Percent Missed Installation Appointments – UNE Loops
- Percent Provisioning Troubles within 4 Days - Resale POTS
- Percent Provisioning Troubles within 4 Days - Resale Design
- Percent Provisioning Troubles within 4 Days - UNE Loop and Port Combos
- Percent Provisioning Troubles within 4 Days - UNE Loops
- Customer Trouble Report Rate – Resale POTS
- Customer Trouble Report Rate – Resale Design
- Customer Trouble Report Rate - UNE Loop and Port Combos
- Customer Trouble Report Rate - UNE Loops
- Percent Missed Repair Appointments – Resale POTS
- Percent Missed Repair Appointments - Resale Design
- Percent Missed Repair Appointments - UNE Loop and Port Combos
- Percent Missed Repair Appointments - UNE Loops
- Maintenance Average Duration – Resale POTS
- Maintenance Average Duration – Resale Design
- Maintenance Average Duration - UNE Loop and Port Combos
- Maintenance Average Duration - UNE Loops
- Maintenance Average Duration – IC Trunks
- Percent Repeat Troubles within 30 Days – Resale POTS
- Percent Repeat Troubles within 30 Days – Resale Design
- Percent Repeat Troubles within 30 Days - UNE Loop and Port Combos
- Percent Repeat Troubles within 30 Days - UNE Loops
- Billing Timeliness
- Billing Accuracy
- Usage Data Delivery Timeliness
- Usage Data Delivery Accuracy
- Percent Trunk Blockage
- LNP Disconnect Timeliness
- LNP Percent Missed Installation Appointment
- Coordinated Customer Conversions for UNE Loops
- Coordinated Customer Conversions for LNP
- Percent Missed Collocation Due Dates

VSEEMIII TIER-3 SUBMETRICS

- Percent Missed Installation Appointments – Resale POTS
- Percent Missed Installation Appointments – Resale Design
- Percent Missed Installation Appointments – UNE Loop and Port Combos
- Percent Missed Installation Appointments – UNE Loops
- Percent Missed Repair Appointments – Resale POTS
- Percent Missed Repair Appointments - Resale Design
- Percent Missed Repair Appointments - UNE Loop and Port Combos
- Percent Missed Repair Appointments - UNE Loops
- Billing Timeliness
- Billing Accuracy
- Percent Trunk Blockage
- Percent Missed Collocation Due Dates

VSEEM III	MEASURES AND SUB-METRICS	RETAIL ANALOGUE
Pre-Ordering	Percent Response Received within "X" seconds	Resale (x) and UNEs
	OSS Interface Availability	Retail Analogue + 4 sec
Ordering	Percent Flow-Through Service Request (Fully Mechanized only)	x
	Firm Order Confirmation Timeliness (Mechanized only)	
	Reject Interval (Mechanized only)	
Provisioning	Order Completion Interval (Dispatch only) – Resale POTS	x
	Order Completion Interval (Dispatch only) – Resale Design	x
	Order Completion Interval (No Dispatch only) – UNE Loop & Port Combos	Retail Residence and Business
	Order Completion Interval (Dispatch only) – UNE Loops	Design: Retail Design Dispatch 'w' Orders Non-Design: Retail Res, Bus Dispatch 'w' Orders
	Order Completion Interval (Dispatch only) – IC Trunks	x
	Percent Missed Installation Appointments – Resale POTS	x
	Percent Missed Installation Appointments – Resale Design	x
	Percent Missed Installation Appointments – UNE Loop and Port Combos	Retail Residence and Business
	Percent Missed Installation Appointments – UNE Loops	Design: Retail Design [1] Non-Design: Retail Res, Bus [1]
	Percent Provisioning Troubles within 4 Days - Resale POTS	x
	Percent Provisioning Troubles within 4 Days - Resale Design	x
	Percent Provisioning Troubles within 4 Days - UNE Loop and Port Combos	Retail Residence and Business
	Percent Provisioning Troubles within 4 Days - UNE Loops	Design: Retail Design [1] Non-Design: Retail Res, Bus [1]
Maintenance	Customer Trouble Report Rate – Resale POTS	x
	Customer Trouble Report Rate – Resale Design	x
	Customer Trouble Report Rate - UNE Loop and Port Combos	Retail Residence and Business
	Customer Trouble Report Rate - UNE Loops	Design: Retail Design [1] Non-Design: Retail Res, Bus [1]
	Percent Missed Repair Appointments – Resale POTS	x
	Percent Missed Repair Appointments - Resale Design	x
	Percent Missed Repair Appointments - UNE Loop and Port Combos	Retail Residence and Business
	Percent Missed Repair Appointments - UNE Loops	Design: Retail Design [1] Non-Design: Retail Res, Bus [1]

BENC
MARK
90%
95%
hrs
95%
hrs

NOTES: [1] The retail analog for UNE Non-Design is the average of all retail residence and retail business transactions for the particular month The retail analog for UNE Design is calculated similarly using retail residence, business and design results.
[2] UD = Under Development

Maintenance Continued	Maintenance Average Duration – Resale POTS	x	
	Maintenance Average Duration – Resale Design	x	
	Maintenance Average Duration - UNE Loop and Port Combos	Retail Residence and Business	
	Maintenance Average Duration - UNE Loops	Design: Retail Design [1] Non-Design: Retail Res, Bus [1]	
	Maintenance Average Duration – IC Trunks	x	
	Percent Repeat Troubles within 30 Days – Resale POTS	x	
	Percent Repeat Troubles within 30 Days – Resale Design	x	
	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 [1] Non-Design: Retail Res, Bus [1]	
Billing	Invoice Accuracy	x	
	Mean Time To Deliver Invoices	x	
	Usage Data Delivery Accuracy	x	
	Usage Data Delivery Timeliness	x	
Trunk Blockage	Trunk Group Service Report (Percent Trunk Blockage)	x	
LNP	Average Disconnect Timeliness Interval		UD
	Percent Missed Installation Appointments		UD
CC Conversions	Coordinated Customer Conversions – UNE Loop		95%
	Coordinated Customer Conversions – LNP		15mm 95%
Collocation	% of Due Dates Missed		15 mm ≤ 10"

NOTES: [1] The retail analog for UNE Non-Design is the average of all retail residence and retail business transactions for the particular month The retail analog for UNE Design is calculated similarly using retail residence, business and design results.
[2] UD = Under Development

EXHIBIT C

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.

- Like-to-Like Comparisons. When possible, data should be compared at appropriate levels, e.g. wire center, time of month, dispatched, residential, new orders. The testing process should:
  - Identify variables that may affect the performance measure.
  - Record these important confounding covariates.
  - Adjust for the observed covariates in order to remove potential biases and to make the CLEC and the ILEC units as comparable as possible.
- Aggregate Level Test Statistic. Each performance measure of interest should be summarized by one overall test statistic giving the decision maker a rule that determines whether a statistically significant difference exists. The test statistic should have the following properties.
  - The method should provide a single overall index, on a standard scale.
  - If entries in comparison cells are exactly proportional over a covariate, the aggregated index should be very nearly the same as if comparisons on the covariate had not been done.
  - The contribution of each comparison cell should depend on the number of observations in the cell.
  - Cancellation between comparison cells should be limited.
  - The index should be a continuous function of the observations.
- Production Mode Process. The decision system must be developed so that it does not require intermediate manual intervention, i.e. the process must be a "black box."
  - Calculations are well defined for possible eventualities.
  - The decision process is an algorithm that needs no manual intervention.
  - Results should be arrived at in a timely manner.
  - The system must recognize that resources are needed for other performance measure-related processes that also must be run in a timely manner.
  - The system should be auditable, and adjustable over time.
- Balancing. The testing methodology should balance Type I and Type II Error probabilities.
  - P(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.

In the following sections we describe appropriate testing processes that adhere as much as possible to the testing principles.

Measurement Types

The performance measures that will undergo testing are of three types:

1) means
2) proportions, and
3) rates

While all three have similar characteristics (a proportion is the average of a measure that takes on only the values of 0 or 1), a proportion or rate is derived from count data while a mean is generally an average of interval measurements.

II. Testing Methodology – The Truncated Z

Many covariates are chosen in order to provide deep comparison levels. In each comparison cell, a Z statistic is calculated. The form of the Z statistic may vary depending on the performance measure, but it should be distributed approximately as a standard normal, with mean zero and variance equal to one. Assuming that the test statistic is derived so that it is negative when the performance for the CLEC is worse than for the ILEC, a positive truncation is done – i.e. if the result is negative it is left alone, if the result is positive it is changed to zero. A weighted average of the truncated statistics is calculated where a cell weight depends on the volume of BST and CLEC orders in the cell. The weighted average is re-centered by the theoretical mean of a truncated distribution, and this is divided by the standard error of the weighted average. The standard error is computed assuming a fixed effects model.

Proportion Measures

For performance measures that are calculated as a proportion, in each adjustment cell, the truncated Z and the moments for the truncated Z can be calculated in a direct manner. In adjustment cells where proportions are not close to zero or one, and where the sample sizes are reasonably large, a normal approximation can be used. In this case, the moments for the truncated Z come directly from properties of the standard normal distribution. If the normal approximation is not appropriate, then the Z statistic is calculated from the hypergeometric distribution. In this case, the moments of the truncated Z are calculated exactly using the hypergeometric probabilities.

Rate Measures

The truncated Z methodology for rate measures has the same general structure for calculating the Z in each cell as proportion measures. For a rate measure, there are a fixed number of circuits or units for the CLEC, n_{2j} and a fixed number of units for BST, n_{1j}. Suppose that the performance measure is a "trouble rate." The modeling assumption is that the occurrence of a trouble is independent between units and the number of troubles in n circuits follows a Poisson distribution with mean 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 5 BST and 5 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.

APPENDIX
TECHNICAL DESCRIPTION

We start by assuming that any necessary trimming 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_{1j} = the number of ILEC transactions in cell j

n_{2j} = the number of CLEC transactions in cell j

n_j = the total number transactions in cell j; $n_{1j} + n_{2j}$

X_{1jk} = individual ILEC transactions in cell j; $k = 1,\ldots, n_{1j}$

X_{2jk} = individual CLEC transactions in cell j; $k = 1,\ldots, n_{2j}$

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.

$\overline{X}_{1j}$ = the ILEC sample mean of cell j

$\overline{X}_{2j}$ = the CLEC sample mean of cell j

S^2_{1j} = the ILEC sample variance in cell j

S^2_{2j} = the CLEC sample variance in cell j

y_{jk} = a random sample of size n_{2j} from the set of $Y_{j1},K\ ,Y_{jn_j}$; $k = 1,\ldots,n_{2j}$

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

$$= \binom{n_j}{n_{1j}}$$

The exact parity test is the permutation test based on the "modified Z" statistic. For large samples, we can avoid permutation calculations since this statistic will be normal (or Student's t) to a good approximation. For small samples, where we cannot avoid permutation calculations, we have found that the difference between "modified Z" and the textbook "pooled Z" is negligible. We therefore propose to use the permutation test based on pooled Z for small samples. This decision speeds up the permutation computations considerably, because for each permutation we need only compute the sum of the CLEC sample values, and not the pooled statistic itself.

A permutation probability mass function distribution for [illegible] the "pooled Z" can be written as

$$PM(t) = P(\sum_{k} y_{jk} = t) = \frac{\textit{the number of samples that sum to } t}{M_j}.$$

and the corresponding cumulative permutation distribution is

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

For Proportion Performance Measures the following notation is defined

a_{1j}= the number of ILEC cases possessing an attribute of interest in cell j

a_{2j}= the number of CLEC cases possessing an attribute of interest in cell j

a_j = the number of cases possessing an attribute of interest in cell j; $a_{1j} + a_{2j}$

The exact distribution for a parity test is the hypergeometric distribution. The hypergeometric probability mass function distribution for cell j is

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

and the cumulative hypergeometric distribution is

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

For Rate Measures, the notation needed is defined as

b_{1j} = the number of ILEC base elements in cell j

b_{2j} = the number of CLEC base elements in cell j

b_j = the total number of base elements in cell j; $b_{1j} + b_{2j}$

$\vec{p}_{1j}$ = the ILEC sample rate of cell j; n_{1j}/b_{1j}

$\vec{p}_{2j}$ = the CLEC sample rate of cell j; n_{2j}/b_{2j}

q_j = the relative proportion of CLEC elements for cell j; b_{2j}/b_j

The exact distribution for a parity test is the binomial distribution. The binomial probability mass function distribution for cell j is

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

and the cumulative binomial distribution is

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

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 Measure

$$W_j = \sqrt{\frac{n_{1j} n_{2j}}{n_j}}$$

Proportion Measure

$$W_j = \sqrt{\frac{n_{2j} n_{1j}}{n_j} \cdot \frac{a_j}{n_j} \cdot \left(1 - \frac{a_j}{n_j}\right)}$$

Rate Measure

$$W_j = \sqrt{\frac{b_{1j} b_{2j}}{b_j} \cdot \frac{n_j}{b_j}}$$

2. **In each cell, calculate a Z value, Z_j.** A Z statistic with mean 0 and variance 1 is needed for each cell.

- If $W_j = 0$, set $Z_j = 0$.
- Otherwise, the actual Z statistic calculation depends on the type of performance measure.

Mean Measure

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

where α is determine by the following algorithm.

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

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

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

$$T_j = t_j + \frac{g}{6}\left(\frac{n_{1j} + 2n_{2j}}{\sqrt{n_{1j}\, n_{2j}(n_{1j} + n_{2j})}}\right)\left(t_j^2 + \frac{n_{2j} - n_{1j}}{2n_{1j} + n_{2j}}\right).$$

where

$$t_j = \frac{\bar{X}_{1j} - \bar{X}_{2j}}{s_{1j}\sqrt{\frac{1}{n_{1j}} + \frac{1}{n_{2j}}}}$$

and the coefficient g is an estimate of the skewness of the parent population, which we assume is the same in all cells. It can be estimated from the ILEC values in the largest cells. This needs to be done only once for each measure. We have found that attempting to estimate this skewness parameter for each cell separately leads to excessive variability in the "adjusted" t. We therefore use a single compromise value in all cells.

Note, that t_j is the "modified Z" statistic. The statistic T_j is a "modified Z" corrected for the skewness of the ILEC data.

If $\min(n_{1j}, n_{2j}) \leq 6$, and

a) $M_j \leq 1{,}000$ (the total number of distinct pairs of samples of size n_{1j} and n_{2j} is 1,000 or less).

- Calculate the sample sum for all possible samples of size n_{2j}.
- Rank the sample sums from smallest to largest. Ties are dealt by using average ranks.
- Let R_0 be the rank of the observed sample sum with respect all the sample sums.

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

b) $M_j > 1{,}000$

- Draw a random sample of 1,000 sample sums from the permutation distribution.
- Add the observed sample sum to the list. There is a total of 1001 sample sums. Rank the sample sums from smallest to largest. Ties are dealt by using average ranks.
- Let R_0 be the rank of the observed sample sum with respect all the sample sums.

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

Proportion Measure

$$Z_j = \frac{n_j\, a_{1j} - n_{1j}\, a_j}{\sqrt{\frac{n_{1j}\, n_{2j}\, a_j\, (n_j - a_j)}{n_j - 1}}}.$$

Rate Measure

$$Z_j = \frac{n_{1j} - n_{\cdot} q_{\cdot}}{\sqrt{n_j q_j (1 - q_j)}}$$

3. **Obtain a truncated Z value for each cell, Z_j^*.** To limit the amount of cancellation that takes place between cell results during aggregation, cells whose results suggest possible favoritism are left alone. Otherwise the cell statistic is set to zero. This means that positive equivalent Z values are set to 0, and negative values are left alone. Mathematically, this is written as

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

4. **Calculate the theoretical mean and variance of the truncated statistic under the null hypothesis of parity.** $E(Z_j^* | H_0)$ and $\mathrm{Var}(Z_j^* | H_0)$. 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 $\mathrm{Var}(Z_j^* | H_0)$ 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, or $\min(n_{1j}, n_{2j}) > 15$ and $n_j q_j (1 - q_j) > 9$ for a rate measure then

$$E(Z_j^* | H_0) = -\frac{1}{\sqrt{2\pi}}, \text{ and}$$

$$\mathrm{Var}(Z_j^* | H_0) = \frac{1}{2} - \frac{1}{2\pi}.$$

   - 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.

$$E(Z_j^* | H_0) = \sum_i \theta_{ji} z_{ji}, \text{ and}$$

$$\mathrm{Var}(Z_j^* | H_0) = \sum_i \theta_{ji} z_{ji}^2 - \left[E(Z_j^* | H_0)\right]^2.$$

The actual values of the z's and θ's depends on the type of measure, and the sums in the equations are over all possible values of the index i.

Mean Measure

$$N_j = \min(M_j, 1{,}000),\ i = 1, K, N_j$$

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

$$\theta_j = \frac{1}{N_j}$$

Proportion Measure

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

$$\theta_{ji} = HG(i)$$

Rate Measure

$$z_{ji} = \min\left\{0, \frac{i - n_j\, q_j}{\sqrt{n_j\, q_j (1 - q_j)}}\right\}, \quad i = 0, K, n_j$$

$$\theta_{ji} = BN(i)$$

5. **Calculate the aggregate test statistic, Z^T.**

$$Z^T = \frac{\sum_j W_j Z_j^* - \sum_j W_j E(Z_j^* \mid H_0)}{\sqrt{\sum_j W_j^2 \mathrm{Var}(Z_j^* \mid H_0)}}$$

The Balancing Critical Value

There are four key elements of the statistical testing process:

1. **the null hypothesis, H_0, that parity exists between ILEC and CLEC services**
2. **the alternative hypothesis, H_a, that the ILEC is giving better service to its own customers**
3. **the Truncated Z test statistic, Z^T, and**
4. **a critical value, *c***

The decision rule[1] is

- **If $Z^T < c$ then accept H_a.**
- **If $Z^T \geq c$ then accept H_0.**

There are two types of error possible when using such a decision rule:

[1] 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.

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: $\alpha = P(Z^T < c \mid H_0)$.

Type II Error: $\beta = P(Z^T \geq c \mid H_a)$.

We want a balancing critical value, c_B, so that $\alpha = \beta$.

It can be shown that.

$$c_B = \frac{\sum_j W_j M(m_j, se_j) - \sum_j W_j \frac{-1}{\sqrt{2\pi}}}{\sqrt{\sum_j W_j^2 V(m_j, se_j)} + \sqrt{\sum_j W_j^2 \left(\frac{1}{2} - \frac{1}{2\pi}\right)}}.$$

where

$$M(\mu, \sigma) = \mu \Phi\left(\frac{-\mu}{\sigma}\right) - \sigma \phi\left(\frac{-\mu}{\sigma}\right)$$

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

$\Phi(\cdot)$ is the cumulative standard normal distribution function, and $\phi(\cdot)$ is the standard normal density function.

This formula assumes that Z_j is approximately normally distributed within cell j. When the cell sample sizes, n_{1j} and n_{2j}, are small this may not be true. It is possible to determine the cell mean and variance under the null hypothesis when the cell sample sizes are small. It is much more difficult to determine these values under the alternative hypothesis. Since the cell weight, W_j will also be small (see calculate weights section above) for a cell with small volume, the cell mean and variance will not contribute much to the weighted sum. Therefore, the above formula provides a reasonable approximation to the balancing critical value.

The values of m_j and se_j will depend on the type of performance measure.

Mean Measure

For mean measures, one is concerned with two parameters in each cell, namely, the mean and variance. A possible lack of parity may be due to a difference in cell means, and/or a difference in cell variances. One possible set of hypotheses that capture this notion, and take into account the assumption that transaction are identically distributed within cells is:

H_0: $\mu_{1j} = \mu_{2j}$, $\sigma_{1j}^2 = \sigma_{2j}^2$

H_a: $\mu_{2j} = \mu_{1j} + \delta_j \cdot \sigma_{1j}$, $\sigma_{2j}^2 = \lambda_j \cdot \sigma_{1j}^2$ $\quad\quad$ $\delta_j > 0$, $\lambda_j \geq 1$ and $j = 1,\ldots,L$.

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

$$m_j = \frac{-\delta_j}{\sqrt{\frac{1}{n_{1j}} + \frac{1}{n_{2j}}}}, \text{ and}$$

$$se_j = \sqrt{\frac{\lambda_j n_{1j} + n_{2j}}{n_{1j} + n_{2j}}}$$

Proportion Measure

For a proportion measure there is only one parameter of interest in each cell, the proportion of transaction possessing an attribute of interest. A possible lack of parity may be due to a difference in cell proportions. A set of hypotheses that take into account the assumption that transaction are identically distributed within cells while allowing for an analytically tractable solution is:

$$H_0: \frac{p_{2j}(1-p_{1j})}{(1-p_{2j})p_{1j}} = 1$$

$$H_a: \frac{p_{2j}(1-p_{1j})}{(1-p_{2j})p_{1j}} = \psi_j \qquad \psi_j > 1 \text{ and } j = 1,\ldots,L.$$

These hypotheses are based on the "odds ratio."[1] 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_j times more likely to be missed than an ILEC trouble.

Under this form of alternative hypothesis, the within cell asymptotic mean and variance of a_{1j} are given by[2]

$$E(a_{1j}) = n_j \pi_j^{(1)}$$

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

where

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

$$\pi_j^{(1)} = f_j^{(1)}\left(n_j^2 + f_j^{(2)} + f_j^{(3)} - f_j^{(4)}\right)$$

$$\pi_j^{(2)} = f_j^{(1)}\left(-n_j^2 - f_j^{(2)} + f_j^{(3)} + f_j^{(4)}\right)$$

$$\pi_j^{(3)} = f_j^{(1)}\left(-n_j^2 + f_j^{(2)} - f_j^{(3)} + f_j^{(4)}\right)$$

$$\pi_j^{(4)} = f_j^{(1)}\left(n_j^2\left(\tfrac{2}{\psi_j} - 1\right) - f_j^{(2)} - f_j^{(3)} - f_j^{(4)}\right)$$

$$f_j^{(1)} = \frac{1}{2n_j^2\left(\frac{1}{\psi_j} - 1\right)}$$

$$f_j^{(2)} = n_j n_{1j}\left(\tfrac{1}{\psi_j} - 1\right)$$

$$f_j^{(3)} = n_j a_j\left(\tfrac{1}{\psi_j} - 1\right)$$

$$f_j^{(4)} = \sqrt{n_j^2\left[4n_{1j}\left(n_j - a_j\right)\left(\tfrac{1}{\psi_j} - 1\right) + \left(n_j + \left(a_j - n_{1j}\right)\left(\tfrac{1}{\psi_j} - 1\right)\right)^2\right]}$$

Recall that the cell test statistic is given by

$$Z_j = \frac{n_j\, a_{1j} - n_{1j}\, a_j}{\sqrt{\dfrac{n_{1j}\, n_{2j}\, a_j\, (n_j - a_j)}{n_j - 1}}}.$$

Using the equations above, we see that Z_j has mean and standard error given by

$$m_j = \frac{n_j^2 \pi_j^{(1)} - n_{1j}\, a_j}{\sqrt{\dfrac{n_{1j}\, n_{2j}\, a_j\, (n_j - a_j)}{n_j - 1}}}, \text{ and}$$

$$se_j = \sqrt{\frac{n_j^3 (n_j - 1)}{n_{1j}\, n_{2j}\, a_j\, (n_j - a_j)\left(\frac{1}{\pi_j^{(1)}} + \frac{1}{\pi_j^{(2)}} + \frac{1}{\pi_j^{(3)}} + \frac{1}{\pi_j^{(4)}}\right)}}.$$

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

Given the total number of ILEC and CLEC transactions in a cell, n_j, and the number of base elements, b_{1j} and b_{2j}, the number of ILEC transaction, n_{1j}, has a binomial distribution from n_j trials and a probability of

$$q_j^* = \frac{r_{1j} b_{1j}}{r_{1j} b_{1j} + r_{2j} b_{2j}}.$$

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

$$E(n_{1j}) = n_j q_j^*$$
$$\text{var}(n_{1j}) = n_j q_j^* (1 - q_j^*)$$

Under the null hypothesis

$$q_j^* = q_j = \frac{b_{1j}}{b_j},$$

but under the alternative hypothesis

$$q_j^* = q_j^a = \frac{b_{1j}}{b_{1j} + \varepsilon_j b_{2j}}.$$

Recall that the cell test statistic is given by

$$Z_j = \frac{n_{1j} - n_j q_j}{\sqrt{n_j q_j (1 - q_j)}}.$$

Using the relationships above, we see that Z_j has mean and standard error given by

$$m_j = \frac{n_j (q_j^a - q_j)}{\sqrt{n_j q_j (1 - q_j)}} = (1 - \varepsilon_j) \sqrt{\frac{n_j b_{1j} b_{2j}}{b_{1j} + \varepsilon_j b_{2j}}}, \text{ and}$$

$$se_j = \sqrt{\frac{q_j^a (1 - q_j^a)}{q_j (1 - q_j)}} = \sqrt{\varepsilon_j} \frac{b_j}{b_{1j} + \varepsilon_j b_{2j}}.$$

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. While statistical science can be used to evaluate the impact of different choices of these parameters, there is not much that an appeal to statistical principles can offer in directing specific choices. Specific choices are best left to telephony experts. Still, it is possible to comment on some aspects of these choices:

- Parameter Choices for λ_j. 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.

- Parameter Choices for δ_j. 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, however, since the state sample would be so much larger.

- Parameter Choices for ψ_j or ε_j. 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_j for mean measures. Sample size matters here as well. As with mean measures, using the same value of ψ or ε for the overall state testing does not seem sensible since the state sample would be so much larger.

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

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. Otherwise, go to step 4.
4. Calculate the Parity Gap by subtracting the value of step 2. from that of step 1.; $z^T_{CLEC1} - {}^{C}B_{CLEC1}$
5. 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%.
6. Calculate the Affected Volume by multiplying the Volume Proportion from step 5. by the Total $CLEC_1$ Volume in the negatively affected cell; where the cell value is negative. (See Exhibit C)
7. Calculate the payment to Global Crossing by multiplying the result of step 6. by the appropriate dollar amount from the fee schedule.

So, Global Crossing payment = Affected $Volume_{CLEC1}$ * $$ from Fee Schedule

Example: Global Crossing Missed Installation Appointments (MIA) for Resale POTS

	n_I	n_C	MIA_I	MIA_C	z^T_{CLEC1}	C_B	Parity Gap	Volume Proportion	Affected Volume
State	50000	600	9%	16%	-1.92	-0.21	1.71	0.4275	
Cell					Z_{CLEC1}				
1		150	0.091	0.112	-1.994				64
2		75	0.176	0.098	0.734				
3		10	0.128	0.333	-2.619				4
4		50	0.158	0.242	-2.878				21
5		15	0.245	0.075	1.345				
6		200	0.156	0.130	0.021				
7		30	0.166	0.233	-0.600				13
8		20	0.106	0.127	-0.065				9
9		40	0.193	0.218	-0.918				17
10		10	0.160	0.235	-0.660				4
									133

where n_I = ILEC observations and n_C = Global Crossing observations

Payout for Global Crossing is (133 units) * ($100/unit) = $13,300

TIER-2 CALCULATION for RETAIL ANALOGUES:

1. Tier-2 is triggered by three monthly failures of any VSEEM submetric in the same quarter.

2. Calculate the overall test statistic for the CLEC Aggregate using all transactions from the calendar quarter; z^{T}_{CLECA}

3. Calculate the balancing critical value(${}^{C}B_{CLEC}$) that is associated with the alternative hypothesis (for fixed parameters δ, ψ or ε). (See Exhibit C)

4. If the overall test statistic is equal to or above the balancing critical value for the calendar quarter, stop here. Otherwise, go to step 5.

5. Calculate the Parity Gap by subtracting the value of step 3. from that of step 2.; $z^{T}_{CLECA} - {}^{C}B_{CLECA}$

6. Calculate the Volume Proportion using a linear distribution with slope of ¼. This can be accomplished by dividing the Parity Gap from step 5. by 4; ABS(($z^{T}_{CLECA} - {}^{C}B_{CLECA}$) / 4). All parity gaps equal or greater to 4 will result in a volume proportion of 100%.

7. Calculate the Affected Volume by multiplying the Volume Proportion from step 6. by the Total $CLEC_A$ Volume (CLEC Aggregate) in the negatively affected cell; where the cell value is negative (See Exhibit C).

8. Calculate the payment to State Designated Agency by multiplying the result of step 7. by the appropriate dollar amount from the fee schedule.

   So, State Designated Agency payment = $\text{Affected Volume}_{CLECA}$ * $$ from Fee Schedule

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

State	n_I	n_C	MIA_I	MIA_C	z^{T}_{CLECA}	C_B	Parity Gap	Volume Proportion	Affected Volume
Quarter1	180000	2100	9%	16%	-1.92	-0.21	1.71	0.4275	
Cell					Z_{CLECA}				
1		500	0.091	0.112	-1.994				214
2		300	0.176	0.098	0.734				
3		80	0.128	0.333	-2.619				34
4		205	0.158	0.242	-2.878				88
5		45	0.245	0.075	1.345				
6		605	0.156	0.130	0.021				
		80	0.166	0.233	-0.600				34
		40	0.106	0.127	-0.065				17

9	165	0.193	0.218	-0.918
10	80	0.160	0.235	-0.660

71
34
492

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

Payout for CLEC-A is (492 units) * ($300/unit) = $147,600

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.

Process	Measures	TIER-3 FAILURE X = Miss			NOT A TIER-3 FAILURE X = Miss		
		Jan	Feb	Mar	Jan	Feb	Mar
[illegible]	Resale POTS	X	X	X	X		
	Resale Design	X			X	X	X
	UNE Loop & Port Combo		X				
	UNE Loops	X	X	X			
[illegible]	Resale POTS	X	X	X	X		X
	Resale Design		X	X		X	
	UNE Loop & Port Combo					X	X
	UNE Loops				X		
[illegible]	Billing Accuracy	X	X	X			
	Billing Timeliness				X	X	X
[illegible]	Percent Trunk Blockage	X	X	X			
[illegible]	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:

TABLE I SMALL SAMPLE SIZE TABLE
(95% Confidence)

Sample Size	Equivalent 90% Benchmark	Equivalent 95% Benchmark
5	60.00%	80.00%
6	66.67%	83.33%
7	71.43%	85.71%
8	75.00%	75.00%
9	66.67%	77.78%
10	70.00%	80.00%
11	72.73%	81.82%
12	75.00%	83.33%
13	76.92%	84.62%
14	78.57%	85.71%
15	73.33%	86.67%

Sample Size	Equivalent 90% Benchmark	Equivalent 95% Benchmark
16	75.00%	87.50%
17	76.47%	82.35%
18	77.78%	83.33%
19	78.95%	84.21%
20	80.00%	85.00%
21	76.19%	85.71%
22	77.27%	86.36%
23	78.26%	86.96%
24	79.17%	87.50%
25	80.00%	88.00%
26	80.77%	88.46%
27	81.48%	88.89%
28	78.57%	89.29%
29	79.31%	86.21%
30	80.00%	86.67%

3. If the percentage (or equivalent percentage for small samples) is equal to or below 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 $CLEC_1$ Volume.

6. Calculate the payment to Global Crossing by multiplying the result of step 5. by the appropriate dollar amount from the fee schedule.

So, Global Crossing payment = Affected $Volume_{CLEC1}$ * $$ from Fee Schedule

Example: Global Crossing Missed Installation Appointments (MIA) for UNE Loops

	n_c	Benchmark	MIA_c	Volume Proportion	Affected Volume
State	600	9%	12%	.03	18

Payout for Global Crossing is (18 units) * ($400/unit) = $7,200

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' is equal to or exceeds the benchmark standard, stop here. Otherwise, go to step 5.
5. Determine the Volume Proportion by taking the difference between 100% and the actual performance result.
6. Calculate the Affected Volume by multiplying the Volume Proportion from step 5. by the Total $CLEC_1$ Volume.
7. Calculate the payment to Global Crossing by multiplying the result of step 6. by the appropriate dollar amount from the fee schedule.

So, Global Crossing payment = Affected $Volume_{CLEC1}$ * $$ from Fee Schedule

Example: Global Crossing Reject Timeliness

	n_c	Benchmark	Reject $Timeliness_c$	Volume Proportion	Affected Volume
State	600	95% within 1 hour	93% within 1 hour	.07	42

Payout for Global Crossing is (42 units) * ($100/unit) = $4,200

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

Table-1

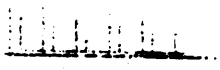
LIQUIDATED DAMAGES TABLE FOR TIER-1 MEASURES

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 Pre-Ordering	$20
Ordering	$60
Provisioning	$300
UNE Provisioning (Coordinated Customer Conversions)	$875
Maintenance and Repair	$300
UNE Maintenance and Repair	$875
Billing	$1.00
LNP	$500
IC Trunks	$500
Collocation	$15,000



AGREEMENT IMPLEMENTATION TEMPLATE (Residence)
for
GLOBAL CROSSING
BellSouth Standard Interconnection Agreement

Agreement Effective Date:	**Agreement Expiration Date:**
Account Manager:	**Account Manager Tel No:**

Attachment Name/Number	Section Number	Version Date	Planned Activities
Terms/Conditions PartA	1	2/29/00	
	2	2/29/00	
	3	2/29/00	
	4	2/29/00	
	5	2/29/00	
	6	2/29/00	
	7	2/29/00	
	8	2/29/00	
	9	2/29/00	
	10	2/29/00	
	11	2/29/00	
	12	2/29/00	
	13	2/29/00	
	14	2/29/00	
	15	2/29/00	
	16	2/29/00	
	17	2/29/00	
	18	2/29/00	
	19	2/29/00	
	20	2/29/00	
	21	2/29/00	
	22	2/29/00	
	23	2/29/00	
	24	2/29/00	
	25	2/29/00	
	26	2/29/00	
Terms/Conditions Part B		2/29/00	
1-Resale	1	2/29/00	

AGREEMENT IMPLEMENTATION TEMPLATE (Residence)
for
GLOBAL CROSSING
BellSouth Standard Interconnection Agreement

Attachment Name/Number	Section Number	Version Date	Planned Activities
	2	2/29/00	
	3	2/29/00	
	4	2/29/00	
	5	2/29/00	
	6	2/29/00	
	7	2/29/00	
	8	2/29/00	
	9	2/29/00	
	10	2/29/00	
	11	2/29/00	
	12	2/29/00	
	13	2/29/00	
	Exhibit A	2/29/00	
	Exhibit B	2/29/00	
	Exhibit C	2/29/00	
	Exhibit D	2/29/00	
	Exhibit E	2/29/00	
	Exhibit F	2/29/00	
	Exhibit G	2/29/00	
		2/29/00	
2-Network Elements & Other Services	1	2/29/00	
	2	2/29/00	
	3	2/29/00	
	4	2/29/00	
	5	2/29/00	
	6	2/29/00	
	7	2/29/00	
	8	2/29/00	
	9	2/29/00	
	10	2/29/00	

AGREEMENT IMPLEMENTATION TEMPLATE (Residence)
for
GLOBAL CROSSING
BellSouth Standard Interconnection Agreement

Attachment Name/Number	Section Number	Version Date	Planned Activities
	11	2/29/00	
	12	2/29/00	
	13	2/29/00	
	14	2/29/00	
	15	2/29/00	
	16	2/29/00	
	17	2/29/00	
	Exhibit A	2/29/00	
	Exhibit B	2/29/00	
	Exhibit C	2/29/00	
3-Local Interconnection	1	2/29/00	
	2	2/29/00	
	3	2/29/00	
	4	2/29/00	
	5	2/29/00	
	6	2/29/00	
	7	2/29/00	
	8	2/29/00	
	Exhibit A	2/29/00	
	Exhibit B	2/29/00	
	Exhibit C	2/29/00	
	Exhibit D	2/29/00	
	Exhibit E	2/29/00	
4-Physical Collocation	1	2/29/00	
	2	2/29/00	
	3	2/29/00	
	4	2/29/00	
	5	2/29/00	
	6	2/29/00	
	7	2/29/00	
	8	2/29/00	

AGREEMENT IMPLEMENTATION TEMPLATE (Residence)
for
GLOBAL CROSSING
BellSouth Standard Interconnection Agreement

Attachment Name/Number	Section Number	Version Date	Planned Activities
	9	2/29/00	
	10	2/29/00	
	11	2/29/00	
	12	2/29/00	
	13	2/29/00	
	14	2/29/00	
	Exhibit A	2/29/00	
	Exhibit B	2/29/00	
5-Access to Numbers & Number Portability	1	2/29/00	
	2	2/29/00	
	3	2/29/00	
	4	2/29/00	
	5	2/29/00	
	6	2/29/00	
	7	2/29/00	
	8	2/29/00	
	Exhibit A	2/29/00	
6-Ordering/Provisioning	1	2/29/00	
	2	2/29/00	
	3	2/29/00	
7-Billing & Billing Accuracy Certification	1	2/29/00	
	2	2/29/00	
	3	2/29/00	
	4	2/29/00	
	5	2/29/00	
	6	2/29/00	
	7	2/29/00	
	Exhibit A	2/29/00	
8-ROW/Conduits/PoleAtt	1	2/29/00	

AGREEMENT IMPLEMENTATION TEMPLATE (Residence)
for
GLOBAL CROSSING
BellSouth Standard Interconnection Agreement

Attachment Name/Number	Section Number	Version Date	Planned Activities
9-Perf Measurement	Pre-Ordering	2/29/00	
	Ordering	2/29/00	
	Provisioning	2/29/00	
	Maint/Repair	2/29/00	
	Billing	2/29/00	
	Opr Svcs/DA	2/29/00	
	E911	2/29/00	
	Trunk Grp Perf	2/29/00	
	Collocation	2/29/00	
	Appendix A	2/29/00	
	Appendix B	2/29/00	
	Appendix C	2/29/00	
10-Executive Summary		2/29/00	
		2/29/00	
11-Disaster Recovery		2/29/00	
		2/29/00	

AGREEMENT IMPLEMENTATION TEMPLATE (Business)
for
GLOBAL CROSSING
BellSouth Standard Interconnection Agreement

Agreement Effective Date:	**Agreement Expiration Date:**
Account Manager:	**Account Manager Tel No:**

Attachment Name	Section No.	Version Date	Planned Activities
Terms/Conditions PartA	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	18		
	19		
	20		
	21		
	22		
	23		
	24		
	25		
	26		
Terms/Conditions Part B			
1-Resale	1		

AGREEMENT IMPLEMENTATION TEMPLATE (Business)
for
GLOBAL CROSSING
BellSouth Standard Interconnection Agreement

Attachment Name	Section No.	Version Date	Planned Activities
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		
	13		
	Exhibit A		
	Exhibit B		
	Exhibit C		
	Exhibit D		
	Exhibit E		
	Exhibit F		
	Exhibit G		
	Exhibit H		
2-Network Elements & Other Services	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		

AGREEMENT IMPLEMENTATION TEMPLATE (Business)
for
GLOBAL CROSSING
BellSouth Standard Interconnection Agreement

Attachment Name	Section No.	Version Date	Planned Activities
	11		
	12		
	13		
	14		
	15		
	16		
	17		
	Exhibit A		
	Exhibit B		
	Exhibit C		
3-Local Interconnection	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	Exhibit A		
4-Physical Collocation	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	10		
	11		
	12		

AGREEMENT IMPLEMENTATION TEMPLATE (Business)
for
GLOBAL CROSSING
BellSouth Standard Interconnection Agreement

Attachment Name	Section No.	Version Date	Planned Activities
	13		
	14		
	Exhibit A		
	Exhibit B		
Access to Numbers & Number Portability	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	Exhibit A		
6-Ordering/Provisioning	1		
	2		
	3		
7-Billing & Billing Accuracy Certification	1		
	2		
	3		
	4		
	5		
	6		
	7		
	Exhibit A		
8-ROW/Conduits/PoleAtt	1		
9-Perf Measurement	Pre-Ordering		
	Ordering		
	Provisioning		
	Maint/Repair		

AGREEMENT IMPLEMENTATION TEMPLATE (Business)
for
GLOBAL CROSSING
BellSouth Standard Interconnection Agreement

Attachment Name	Section No.	Version Date	Planned Activities
	Billing		
	Opr Svcs/DA		
	E911		
	Trunk Grp Perf		
	Collocation		
	Appendix A		
	Appendix B		
	Appendix C		

Attachment 11
BellSouth Disaster Recovery Plan

2000
BELLSOUTH

DISASTER RECOVERY PLANNING

For

CLECS

CONTENTS

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1.0 PURPOSE

In the unlikely event of a disaster occurring that affects BellSouth's long-term ability to deliver traffic to a Competitive Local Exchange Carrier (CLEC), general procedures have been developed to hasten the recovery process. Since each location is different and could be affected by an assortment of potential problems, a detailed recovery plan is impractical. However, in the process of reviewing recovery activities for specific locations, some basic procedures emerge that appear to be common in most cases.

These general procedures should apply to any disaster that affects the delivery of traffic for an extended time period. Each CLEC will be given the same consideration during an outage and service will be restored as quickly as possible.

This document will cover the basic recovery procedures that would apply to every CLEC.

2.0 SINGLE POINT OF CONTACT

When a problem is experienced, regardless of the severity, the BellSouth Network Management Center (NMC) will observe traffic anomalies and begin monitoring the situation. Controls will be appropriately applied to insure the sanity of BellSouth's network; and, in the event that a switch or facility node is lost, the NMC will attempt to circumvent the failure using available reroutes.

BellSouth's NMC will remain in control of the restoration efforts until the problem has been identified as being a long-term outage. At that time, the NMC will contact BellSouth's Emergency Control Center (ECC) and relinquish control of the recovery efforts. Even though the ECC may take charge of the situation, the NMC will continue to monitor the circumstances and restore traffic as soon as damaged network elements are revitalized.

The telephone number for the BellSouth Network Management Center in Atlanta, as published in Telcordia's National Network Management Directory, is 404-321-2516.

3.0 IDENTIFYING THE PROBLEM

During the early stages of problem detection, the NMC will be able to tell which CLECs are affected by the catastrophe. Further analysis and/or first hand observation will determine if the disaster has affected CLEC equipment only; BellSouth equipment only or a combination. The initial restoration activity will be largely determined by the equipment that is affected.

Once the nature of the disaster is determined and after verifying the cause of the problem, the NMC will initiate reroutes and/or transfers that are jointly agreed upon by the affected CLECs' Network Management Center and the BellSouth NMC. The type and percentage of controls used will depend upon available network capacity. Controls necessary to stabilize the situation will be invoked and the NMC will attempt to re-establish as much traffic as possible.

For long term outages, recovery efforts will be coordinated by the Emergency Control Center (ECC). Traffic controls will continue to be applied by the NMC until facilities are re-established. As equipment is made available for service, the ECC will instruct the NMC to begin removing the controls and allow traffic to resume.

3.1 SITE CONTROL

In the total loss of building use scenario, what likely exists will be a smoking pile of rubble. This rubble will contain many components that could be dangerous. It could also contain any personnel on the premises at the time of the disaster. For these reasons, the local fire marshal with the assistance of the police will control the site until the building is no longer a threat to surrounding properties and the companies have secured the site from the general public.

During this time, the majority owner of the building should be arranging for a demolition contractor to mobilize to the site with the primary objective of reaching the cable entrance facility for a damage assessment. The results of this assessment would then dictate immediate plans for restoration, both short term and permanent.

In a less catastrophic event, i.e., the building is still standing and the cable entrance facility is usable, the situation is more complex. The site will initially be controlled by local authorities until the threat to adjacent property has diminished. Once the site is returned to the control of the companies, the following events should occur.

An initial assessment of the main building infrastructure systems (mechanical, electrical, fire & life safety, elevators, and others) will establish building needs. Once these needs are determined, the majority owner should lead the building restoration efforts. There may be situations where the site will not be totally restored within the confines of the building. The companies must individually determine their needs and jointly assess the cost of permanent restoration to determine the overall plan of action.

Multiple restoration trailers from each company will result in the need for designated space and installation order. This layout and control is required to maximize the amount of restoration equipment that can be placed at the site, and the priority of placements.

Care must be taken in this planning to insure other restoration efforts have logistical access to the building. Major components of telephone and building equipment will need to be removed and replaced. A priority for this equipment must also be jointly established to facilitate overall site restoration. (Example: If the AC switchgear has sustained damage, this would be of the highest priority in order to regain power, lighting, and HVAC throughout the building.)

If the site will not accommodate the required restoration equipment, the companies would then need to quickly arrange with local authorities for street closures, rights of way or other possible options available.

3.2 ENVIRONMENTAL CONCERNS

In the worse case scenario, many environmental concerns must be addressed. Along with the police and fire marshal, the state environmental protection department will be on site to monitor the situation.

Items to be concerned with in a large central office building could include:

1. Emergency engine fuel supply. Damage to the standby equipment and the fuel handling equipment could have created "spill" conditions that have to be handled within state and federal regulations.

2. Asbestos containing materials that may be spread throughout the wreckage. Asbestos could be in many components of building, electrical, mechanical, outside plant distribution, and telephone systems.

3. Lead and acid. These materials could be present in potentially large quantities depending upon the extent of damage to the power room.

4. Mercury and other regulated compounds resident in telephone equipment.

5. Other compounds produced by the fire or heat.

Once a total loss event occurs at a large site, local authorities will control immediate clean up (water placed on the wreckage by the fire department) and site access.

At some point, the companies will become involved with local authorities in the overall planning associated with site clean up and restoration. Depending on the clean up approach taken, delays in the restoration of several hours to several days may occur.

In a less severe disaster, items listed above are more defined and can be addressed individually depending on the damage.

In each case, the majority owner should coordinate building and environmental restoration as well as maintain proper planning and site control.

4.0 THE EMERGENCY CONTROL CENTER (ECC)

The ECC is located in the Colonnade Building in Birmingham, Alabama. During an emergency, the ECC staff will convene a group of pre-selected experts to inventory the damage and initiate corrective actions. These experts have regional access to BellSouth's personnel and equipment and will assume control of the restoration activity anywhere in the nine-state area.

In the past, the ECC has been involve with restoration activities resulting from hurricanes, ice storms and floods. They have demonstrated their capabilities during these calamities as well as

during outages caused by human error or equipment failures. This group has an excellent record of restoring service as quickly as possible.

During a major disaster, the ECC may move emergency equipment to the affected location, direct recovery efforts of local personnel and coordinate service restoration activities with the CLECs. The ECC will attempt to restore service as quickly as possible using whatever means is available; leaving permanent solutions, such as the replacement of damaged buildings or equipment, for local personnel to administer.

Part of the ECC's responsibility, after temporary equipment is in place, is to support the NMC efforts to return service to the CLECs. Once service has been restored, the ECC will return control of the network to normal operational organizations. Any long-term changes required after service is restored will be made in an orderly fashion and will be conducted as normal activity.

5.0 RECOVERY PROCEDURES

The nature and severity of any disaster will influence the recovery procedures. One crucial factor in determining how BellSouth will proceed with restoration is whether or not BellSouth's equipment is incapacitated. Regardless of who's equipment is out of service, BellSouth will move as quickly as possible to aid with service recovery; however, the approach that will be taken may differ depending upon the location of the problem.

5.1 CLEC OUTAGE

For a problem limited to one CLEC (or a building with multiple CLECs), BellSouth has several options available for restoring service quickly. For those CLECs that have agreements with other CLECs, BellSouth can immediately start directing traffic to a provisional CLEC for completion. This alternative is dependent upon BellSouth having concurrence from the affected CLECs.

Whether or not the affected CLECs have requested a traffic transfer to another CLEC will not impact BellSouth's resolve to re-establish traffic to the original destination as quickly as possible.

5.2 BELLSOUTH OUTAGE

Because BellSouth's equipment has varying degrees of impact on the service provided to the CLECs, restoring service from damaged BellSouth equipment is different. The outage will probably impact a number of Carriers simultaneously. However, the ECC will be able to initiate immediate actions to correct the problem.

A disaster involving any of BellSouth's equipment locations could impact the CLECs, some more than others. A disaster at a Central Office (CO) would only impact the delivery of traffic to and from that one location, but the incident could affect many Carriers. If the Central Office is a Serving Wire Center (SWC), then traffic from the entire area to those Carriers served from that switch would also be impacted. If the switch functions as an Access Tandem, or there is a tandem in the building, traffic from every CO to every CLEC could be interrupted. A disaster that destroys a facility hub could disrupt various traffic flows, even though the switching equipment may be unaffected.

The NMC would be the first group to observe a problem involving BellSouth's equipment. Shortly after a disaster, the NMC will begin applying controls and finding re-routes for the

completion of as much traffic as possible. These reroutes may involve delivering traffic to alternate Carriers upon receiving approval from the CLECs involved. In some cases, changes in translations will be required. If the outage is caused by the destruction of equipment, then the ECC will assume control of the restoration.

5.2.1 Loss of a Central Office

When BellSouth loses a Central Office, the ECC will

a) Place specialists and emergency equipment on notice;

b) Inventory the damage to determine what equipment and/or functions are lost;

c) Move containerized emergency equipment and facility equipment to the stricken area, if necessary;

d) Begin reconnecting service for Hospitals, Police and other emergency agencies; and

e) Begin restoring service to CLECs and other customers.

5.2.2 Loss of a Central Office with Serving Wire Center Functions

The loss of a Central Office that also serves as a Serving Wire Center (SWC) will be restored as described in section 5.2.1.

5.2.3 Loss of a Central Office with Tandem Functions

When BellSouth loses a Central Office building that serves as an Access Tandem and as a SWC, the ECC will

a) Place specialists and emergency equipment on notice;

b) Inventory the damage to determine what equipment and/or functions are lost;

c) Move containerized emergency equipment and facility equipment to the stricken area, if necessary;

d) Begin reconnecting service for Hospitals, Police and other emergency agencies;

e) Re-direct as much traffic as possible to the alternate access tandem (if available) for delivery to those CLECs utilizing a different location as a SWC;

f) Begin aggregating traffic to a location near the damaged building. From this location, begin re-establishing trunk groups to the CLECs for the delivery of traffic normally found on the direct trunk groups. (This aggregation point may be the alternate access tandem location or another CO on a primary facility route.)

g) Begin restoring service to CLECs and other customers.

5.2.4 Loss of a Facility Hub

In the event that BellSouth loses a facility hub, the recovery process is much the same as above. Once the NMC has observed the problem and administered the appropriate controls, the ECC will assume authority for the repairs. The recovery effort will include

a) Placing specialists and emergency equipment on notice;

b) Inventorying the damage to determine what equipment and/or functions are lost;

c) Moving containerized emergency equipment to the stricken area, if necessary;

d) Reconnecting service for Hospitals, Police and other emergency agencies; and

e) Restoring service to CLECs and other customers. If necessary, BellSouth will aggregate the traffic at another location and build temporary facilities. This alternative would be viable for a location that is destroyed and building repairs are required.

5.3 COMBINED OUTAGE (CLEC AND BELLSOUTH EQUIPMENT)

In some instances, a disaster may impact BellSouth's equipment as well as the CLECs'. This situation will be handled in much the same way as described in section 5.2.3. Since BellSouth and the CLECs will be utilizing temporary equipment, close coordination will be required.

6.0 T1 IDENTIFICATION PROCEDURES

During the restoration of service after a disaster, BellSouth may be forced to aggregate traffic for delivery to a CLEC. During this process, T1 traffic may be consolidated onto DS3s and may become unidentifiable to the Carrier. Because resources will be limited, BellSouth may be forced to "package" this traffic entirely differently then normally received by the CLECs. Therefore, a method for identifying the T1 traffic on the DS3s and providing the information to the Carriers is required.

7.0 ACRONYMS

CO	-	Central Office (BellSouth)
DS3	-	Facility that carries 28 T1s (672 circuits)
ECC	-	Emergency Control Center (BellSouth)
CLEC	-	Competitive Local Exchange Carrier
NMC	-	Network Management Center
SWC	-	Serving Wire Center (BellSouth switch)
T1	-	Facility that carries 24 circuits

Hurricane Information

During a hurricane, BellSouth will make every effort to keep CLECs updated on the status of our network. Information centers will be set up throughout BellSouth Telecommunications. These centers are not intended to be used for escalations, but rather to keep the CLEC informed of network related issues, area damages and dispatch conditions, etc.

Hurricane-related information can also be found on line at http://www.interconnection.bellsouth.com/network/disaster/dis_resp.htm. Information concerning Mechanized Disaster Reports can also be found at this website by clicking on CURRENT MDR REPORTS or by going directly to http://www.interconnection.bellsouth.com/network/disaster/mdrs.htm.

BST Disaster Management Plan

BellSouth maintenance centers have geographical and redundant communication capabilities. In the event of a disaster removing any maintenance center from service another geographical center would assume maintenance responsibilities. The contact numbers will not change ; the transfer will be transparent to the CLEC.