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Tallahassee, Florida 32301-1556

Marshall M. Criser III  
Regulatory Vice President

RECORDS AND REPORTING

March 22, 2000

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

Re: Docket 000030-TP Approval of an Interconnection Agreement Negotiated by BellSouth Telecommunications, Inc. ("BellSouth") and Unicom Communications, LLC pursuant to Sections 251, 252 and 271 of the Telecommunications Act of 1996

Dear Mrs. Bayo:

On January 10, 2000, BellSouth and Unicom Communications, LLC filed an interconnection agreement for approval by the Florida Public Service Commission in Docket 000030-TP.

The attached should be inserted to replace Attachment 2 and Attachment 11 in its entirety, in the pending agreement.

Very truly yours,

*Marshall M. Criser III*  
Regulatory Vice President  
*for*  
Attachments

- AFA \_\_\_\_\_
- APP \_\_\_\_\_
- CAF \_\_\_\_\_
- CMU \_\_\_\_\_
- CTR \_\_\_\_\_
- EAG \_\_\_\_\_
- LEG \_\_\_\_\_
- MAS \_\_\_\_\_
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**AMENDMENT  
TO THE  
AGREEMENT BETWEEN  
BELLSOUTH TELECOMMUNICATIONS, INC.  
AND UNICOM COMMUNICATIONS, LLC  
DATED DECEMBER 10, 1999**

Pursuant to this Agreement, (the "Amendment"), UNICOM Communications, Inc. ("UNICOM"), and BellSouth Telecommunications, Inc. ("BellSouth"), hereinafter referred to collectively as the "Parties," hereby agree to amend that certain *Interconnection Agreement* between the Parties dated December 10, 1999 ("Agreement").

WHEREAS, BellSouth and UNICOM entered into an Interconnection Agreement on December 10, 1999 and;

NOW THEREFORE, in consideration of the mutual provisions contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby covenant and agree as follows:

1. The Agreement is hereby amended to delete Attachment 2 in its entirety and replace it with a new Attachment 2 attached hereto as Exhibit 1.
2. The Agreement is hereby amended to delete Attachment 11 in its entirety.
3. The Agreement is hereby amended to include a new Attachment 11 – Disaster Recovery, attached hereto as Exhibit 2.
4. All of the other provisions of the Agreement, dated December 10, 1999, shall remain in full force and effect.
5. Either or both of the Parties is authorized to submit this Amendment to the respective state regulatory authorities for approval subject to Section 252(e) of the Federal Telecommunications Act of 1996.

IN WITNESS WHEREOF, the Parties hereto have caused this Amendment to be executed by their respective duly authorized representatives on the date indicated below.

**UNICOM Communications, Inc.**

**BellSouth Telecommunications, Inc.**

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name:         Jerry Hendrix        

Title: \_\_\_\_\_

Title:         Senior Director        

Date: \_\_\_\_\_

Date: \_\_\_\_\_

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**UNICOM Communications, Inc.**

By: Dennis A. Parker

Name: DENNIS A. PARKER

Title: PRESIDENT

Date: 3/21/2000

**BellSouth Telecommunications, Inc.**

By: Jerry Hendrix

Name: Jerry Hendrix

Title: Senior Director

Date: 3/22/00

## **EXHIBIT 1**

### **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 UNICOM 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, UNICOM 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 UNICOM to offer telecommunications service in the manner UNICOM intends.
  - 1.2.2. Except upon request by UNICOM, 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 UNICOM, and to the extent technically feasible, provide to UNICOM access to its network elements for the provision of UNICOM'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. UNICOM may purchase network elements and other services from BellSouth for the purpose of combining such network elements in any manner UNICOM 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 UNICOM for combining to the designated UNICOM 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 UNICOM. 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. UNICOM 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 UNICOM advised.

- 2.1.6 "Order Coordination - Time Specific" refers to service order coordination in which UNICOM 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. UNICOM may specify a time between 9:00 a.m. and 4:00 p.m. (location time) Monday through Friday (excluding holidays). If UNICOM 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 UNICOM, 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 UNICOM 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 UNICOM 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 UNICOM.
- 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 UNICOM 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 UNICOM, and will be provided with OC. The OC feature will allow UNICOM 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 UNICOM 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 UNICOM will be responsible for testing and isolating troubles on the loops. Once UNICOM has isolated a trouble to the BellSouth provided loop, UNICOM 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 UNICOM reports a trouble on SL1 loops and no trouble actually exists, BellSouth will charge UNICOM 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 UNICOM reports a trouble on SL2 loops and no trouble actually exists, BellSouth will charge UNICOM 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. UNICOM may use the UCL loop for a variety of services, including xDSL (e.g., ADSL and HDSL) services, by attaching appropriate

terminal equipment of UNICOM's choosing. UNICOM 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 UNICOM's request.
- 2.1.22.2 UNICOM 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 UNICOM will be consistent with industry standards and BellSouth's TR73600.
- 2.1.22.4 UNICOM 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 UNICOM 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 UNICOM 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, UNICOM will require access to a copper twisted pair loop unfettered by any intervening equipment (e.g., filters, load coils, range extenders, etc.), so that UNICOM can use the loop for a variety of services by attaching appropriate terminal equipment at the ends. UNICOM will determine the type of

service that will be provided over the loop. In some cases, UNICOM 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 UNICOM 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 UNICOM, in performance of its obligations pursuant to the preceding Section, shall maintain records that will reflect that pursuant to UNICOM'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. UNICOM 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, UNICOM 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 UNICOM has placed on the loop. If this occurs, BellSouth will work cooperatively with UNICOM to restore the circuit to its previous modified status as quickly as possible. UNICOM 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 UNICOM 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 UNICOM, 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 UNICOM 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 UNICOM to order a contiguous local loop. To the extent it is technically feasible, these arrangements will provide UNICOM 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. UNICOM will then have the option of paying the one-time SC rates to place the loop facilities or UNICOM 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 UNICOM to connect UNICOM'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), UNICOM may access the on-premises wiring by any of the following means: BellSouth shall allow UNICOM 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. UNICOM 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., UNICOM, 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 UNICOM 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 UNICOM'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. UNICOM may request BellSouth do additional work to the NID in accordance with Section 2.4.3.8.
- 2.4.4.4 When UNICOM deploys its own local loops with respect to multiple-line termination devices, UNICOM 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 UNICOM 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 UNICOM at UNICOM'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, UNICOM would be required to deliver a cable to the BellSouth remote terminal or cross-box to provide continuity to UNICOM's feeder facilities. This cable would be connected, by a BellSouth technician, to a cross-connect panel within the BellSouth RT/cross-box.



UNICOM'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 UNICOM 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 UNICOM'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. UNICOM will then have the option of paying the one-time SC charge to modify the facilities to meet UNICOM'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 UNICOM with the ability to concentrate its sub-loops onto multiple DS1s back to the BellSouth Central Office. The DS1s will then be terminated into UNICOM'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 UNICOM's sub-loops to be concentrated onto multiple DS1s. System B will allow an additional 96 of UNICOM'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 UNICOM 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 UNICOM'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 UNICOM 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 UNICOM. 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 UNICOM'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 UNICOM. If after BellSouth has relinquished the first pair to UNICOM and the end user decides to change local service providers to BellSouth, UNICOM 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, UNICOM agrees to surrender their spare pair(s) upon request by BellSouth.

- 2.6.7.3.3 If an end user of UNICOM 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 UNICOM 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 UNICOM has placed NTW at a location and an end user desires to receive local exchange service from BellSouth and BellSouth needs access to UNICOM's NTW to provide local exchange service to the end user, then UNICOM 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. UNICOM will be required to place a cross-box, terminal or other similar device and deliver a cable to this SPOI. UNICOM 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 UNICOM.
- 2.7.2.2 If the requested dark fiber has any lightwave repeater equipment interspliced to it, BellSouth will remove such equipment at UNICOM's request subject to time and materials charges.

- 2.7.2.3 UNICOM 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 UNICOM 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 UNICOM ("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 UNICOM'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 UNICOM within thirty (30) business days after it receives written confirmation from UNICOM that the Dark Fiber previously deemed available by BellSouth is wanted for use by UNICOM. This includes identification of appropriate connection points (e.g., Light Guide Interconnection (LGX) or splice points) to enable UNICOM to connect or splice UNICOM 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 UNICOM may splice and test Dark Fiber obtained from BellSouth using UNICOM or UNICOM 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 UNICOM 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 UNICOM 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:

<b>OPERATIONAL SUPPORT SYSTEMS</b>	<b>AL, GA, LA, MS, SC</b>	<b>FL, KY, NC, TN</b>
OSS LSR charge, per LSR received from the CLEC by one of the OSS interactive interfaces	\$3.50	\$3.50
	SOMEK	SOMEK
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 UNICOM 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

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

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 UNICOM for the provision of a telecommunications service. BellSouth shall provide non-discriminatory access to packet switching capability on an unbundled basis to UNICOM 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 UNICOM 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 UNICOM when UNICOM 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 UNICOM 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 UNICOM a rate to be negotiated for use of the local circuit switching functionality for the affected facilities, or in the alternative, to charge UNICOM the local services resale rate for use of all Combinations used to provide the affected facilities to UNICOM.
- 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 UNICOM. 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 UNICOM 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 UNICOM's PIC'ed toll traffic in a two (2) PIC environment to an alternative OS/DA platform designated by UNICOM. UNICOM 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 UNICOM 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. UNICOM customers may use the same dialing arrangements as BellSouth customers, but obtain a UNICOM 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 UNICOM 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 UNICOM customer or network interconnection on any of the Local Switching interfaces. This includes provisioning changes to change a customer from BellSouth's services to UNICOM'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 UNICOM, upon a reasonable request from UNICOM. 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 UNICOM and BellSouth service applications.
- 3.2.2 BellSouth shall offer to UNICOM 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 UNICOM:
  - 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 UNICOM customer line the class of service designated by UNICOM (e.g., using line class codes or other switch specific provisioning methods), and shall route directory assistance calls from UNICOM customers to UNICOM directory assistance operators at UNICOM's option.
- 3.2.5 Where capacity exists, BellSouth shall assign each UNICOM customer line the class of services designated by UNICOM (e.g., using line class codes or other switch specific provisioning methods) and shall route operator calls from UNICOM customers to UNICOM operators at UNICOM's option. For example, BellSouth may translate 0- and 0+ intraLATA traffic, and route the call through appropriate trunks to an UNICOM 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 UNICOM;
  - 3.2.7.2.2 Interface to UNICOM operator services systems or Operator Services through appropriate trunk interconnections for the system; and
  - 3.2.7.2.3 Interface to UNICOM Directory Assistance Services through UNICOM switched network or to Directory Assistance Services through the appropriate trunk interconnections for the system; and 950 access or other UNICOM 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 UNICOM 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 UNICOM;
- 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 UNICOM. Tandem Switching will provide recording of all billable events as jointly agreed to by UNICOM and BellSouth.
- 3.3.2.1.10 Upon a reasonable request from UNICOM, 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 UNICOM.
- 3.3.2.1.11 BellSouth shall maintain UNICOM'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 UNICOM and BellSouth.

- 3.3.2.1.14 Tandem Switching shall process originating toll-free traffic received from UNICOM'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 UNICOM's switch, using two-way trunks, for traffic that is transiting via BellSouth's network to interLATA or intraLATA carriers. At UNICOM'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 UNICOM'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 UNICOM. AIN Selective Carrier Routing will provide UNICOM 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 UNICOM 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 UNICOM, the routing of UNICOM's end user calls shall be pursuant to information provided by UNICOM 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, UNICOM 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 UNICOM 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. UNICOM 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 2<sup>nd</sup> 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 Multiplexers, 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 UNICOM seeks to offer;
  - 3.5.6.3 BellSouth has not permitted UNICOM to deploy a Digital Subscriber Line Access Multiplexer at the remote terminal, pedestal or environmentally controlled vault or other interconnection point, nor has UNICOM 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 UNICOM for the provision of a telecommunications service.

**3.7 Rates**

The prices that UNICOM 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 UNICOM 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	\$3.50
	SOMECH	SOMECH
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 UNICOM 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

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

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 UNICOM's POP serving wire center. The circuit must be connected to UNICOM's circuit switch for the purpose of provisioning circuit switched telephone exchange service to UNICOM'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 UNICOM's POP and UNICOM's collocation space at the POP SWC.

4.2.3 BellSouth shall provide combinations of loops and transport to UNICOM 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 UNICOM in Georgia in accordance with Section 4.5.1.3 below. In all other states, BellSouth shall make available to UNICOM 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 UNICOM if UNICOM's customer has four (4) or more DS0 equivalent lines. Except as stated above, other combinations of network elements will be provided to UNICOM only to the extent such network elements are Currently Combined.

4.2.4 Additionally, there may be instances wherein UNICOM 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 UNICOM may not convert special access services to combinations of loop and transport network elements, whether or not UNICOM self-provides its entrance facilities (or obtains entrance facilities from a third party), unless UNICOM 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 UNICOM converts its special access services to combinations of loop and transport network elements at UNE prices, UNICOM, hereby, certifies that it is providing a significant amount of local exchange service over such combinations. BellSouth may at its sole discretion audit UNICOM 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 UNICOM 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 UNICOM.
- 4.4.2 EEL combinations for DS1 level and above will be available only when UNICOM 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 UNICOM 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, UNICOM, 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 UNICOM'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 UNICOM if UNICOM'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 UNICOM 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 UNICOM 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 UNICOM.
  - 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 UNICOM 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 UNICOM could use to provide telecommunications services;
    - 6.2.4.3 Permit, to the extent technically feasible, UNICOM to connect such interoffice facilities to equipment designated by UNICOM, including but not limited to, UNICOM's collocated facilities; and
    - 6.2.4.4 Permit, to the extent technically feasible, UNICOM 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 UNICOM 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 UNICOM'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 UNICOM. 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 UNICOM 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 UNICOM.
- 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<sup>®</sup> Service Interface and Performance Specifications, Issue D, June 1995.
  - 6.3.11.4 TR 73525 MegaLink<sup>®</sup> 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, UNICOM can have channels activated on an as-needed basis by having BellSouth connect lower level UNEs via Central Office Channel Interfaces (COICs).
- 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 (COIC): 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 COIC 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 essentially the same as defined in BellSouth Technical Reference 73525, *MegaLink<sup>®</sup> Service, MegaLink<sup>®</sup> Channel Service, MegaLink<sup>®</sup> Plus Service, and MegaLink<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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 interspersed 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 UNICOM.
- 6.5.3.2 If the requested dark fiber has any lightwave repeater equipment interspliced to it, BellSouth will remove such equipment at UNICOM's request subject to time and materials charges.
- 6.5.3.3 UNICOM 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 UNICOM 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 UNICOM ("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 UNICOM's use and 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 UNICOM within thirty (30) business days after it receives written confirmation from UNICOM that the Dark Fiber previously deemed available by BellSouth is wanted for use by UNICOM. This includes identification of appropriate connection points (e.g., Light Guide Interconnection (LGX) or splice points) to enable UNICOM to connect or splice UNICOM 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 UNICOM may splice and test Dark Fiber obtained from BellSouth using UNICOM or UNICOM 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 UNICOM 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 UNICOM 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	\$3.50
	SOME C	SOME C
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 UNICOM 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 UNICOM will incur an OSS charge for an accepted LSR that is later canceled by UNICOM.

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 UNICOM. BellSouth shall provide 8XX TFD in accordance with the following:

**7.1.2 Technical Requirements**

**7.1.2.1** BellSouth shall provide UNICOM 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 UNICOM.

**7.1.2.3** The SCP shall also provide, at UNICOM'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 UNICOM 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 UNICOM any additional capabilities that are developed for LIDB during the life of this Agreement.
- 8.2.4.1 BellSouth shall process UNICOM's Customer records in LIDB at least at parity with BellSouth customer records, with respect to other LIDB functions. BellSouth shall indicate to UNICOM 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 UNICOM, BellSouth shall provide UNICOM with a list of the customer data items, which UNICOM 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.

information associated with LIDB Data Screening of UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM database, then UNICOM agrees to provide BellSouth with the Destination Point Code for UNICOM 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 UNICOM 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 UNICOM 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 UNICOM, 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 UNICOM SS7 network to exchange TCAP queries and responses with an UNICOM SCP.

9.4.2.9.2 SS7 AIN Access shall provide UNICOM SCP access to BellSouth local switch in association with switching via interconnection of BellSouth SS7 and UNICOM 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 UNICOM 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 UNICOM or UNICOM-designated local switching systems or STPs to the BellSouth SS7 network:

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

9.4.3.1.2 A B-link interface from UNICOM 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 UNICOM local switching systems or STPs with BellSouth STPs as soon as these become approved ANSI standards and available capabilities of BellSouth STPs. BellSouth and UNICOM 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 UNICOM 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 UNICOM local or tandem switching systems destined to any signaling point within BellSouth's SS7 network where UNICOM 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 UNICOM local or tandem switching systems destined to any signaling point or network accessed through BellSouth's SS7 network where UNICOM 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 UNICOM from any signaling point or network interconnected through BellSouth's SS7 network where UNICOM 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 UNICOM 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 UNICOM 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 UNICOM local Signaling Transfer Point Switches (STP) and UNICOM 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), UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM local or tandem switching system, SS7 Network Interconnection shall include intermediate GTT of messages to a gateway pair of UNICOM 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 UNICOM or UNICOM-designated local or tandem switching systems or STPs to the BellSouth SS7 network:
- 9.7.13.1.1 A-link interface from UNICOM local or tandem switching systems; and
- 9.7.13.1.2 B-link interface from UNICOM 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 UNICOM local switching systems or STPs with BellSouth STPs as soon as these become approved ANSI standards and available capabilities of BellSouth STPs. BellSouth and UNICOM 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 UNICOM 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 UNICOM local or tandem switching systems destined to any signaling point in the BellSouth SS7 network with which UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM.
- 10.3.2.1.16 BellSouth shall provide a feed of customer call records in "EMP" format to UNICOM 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 UNICOM, 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 UNICOM'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, UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM to have its calls custom branded with UNICOM'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 UNICOM 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 UNICOM 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 UNICOM to order selective routing for each originating BellSouth end office identified by UNICOM. Rates for Selective Routing are set forth in this Attachment.
- 10.4.6.3 Customer Branding and Self Branding require UNICOM to order dedicated trunking from each BellSouth end office identified by UNICOM, to either the BellSouth Traffic Operator Position System (TOPS) or UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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 UNICOM 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. UNICOM end users may use the same dialing arrangements as BellSouth end users, but obtain a UNICOM 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 UNICOM 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)). UNICOM 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, UNICOM agrees not to disclose DADS to others and shall provide due care in providing for the security and confidentiality of DADS. Further, UNICOM authorizes the inclusion of UNICOM Directory Assistance listings in the BellSouth Directory Assistance products.
- 10.5.2 BellSouth shall provide UNICOM initially with a base file of subscriber listings which reflect all listing change activity occurring since UNICOM's most recent update via magnetic tape, and subsequently using electronic connectivity such as Network Data Mover to be developed mutually by UNICOM and BellSouth. UNICOM 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 UNICOM on a Business, Residence, or combined Business and Residence basis. UNICOM agrees that the updates shall be used solely to keep the information current. Delivery of Daily Updates will commence the day after UNICOM receives the Base File.
- 10.5.4 BellSouth is authorized to include UNICOM Directory Assistance Listing Information in its Directory Assistance Database Service (DADS). Any other use by BellSouth of UNICOM 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 UNICOM.
- 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 UNICOM'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 UNICOM to utilize its own switch, operator workstations and optional audio subsystems.
- 10.6.2 BellSouth will provide DADAS from its DA location. UNICOM will access the DADAS system via a telephone company provided point of availability. UNICOM 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 UNICOM subsystem will be provided by BellSouth. Interconnection between UNICOM's system and a specified BellSouth location will be pursuant to the use of UNICOM owned or UNICOM leased facilities and shall be appropriate sized based upon the volume of queries being generated by UNICOM.
- 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 UNICOM a data link to the ALI/DMS database or permit UNICOM to provide its own data link to the ALI/DMS database. BellSouth shall provide error reports from the ALI/DMS database to UNICOM immediately after UNICOM inputs information into the ALI/DMS database. Alternately, UNICOM 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 UNICOM requests otherwise and shall be updated if UNICOM requests, provided UNICOM 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 UNICOM end users shall meet industry standards.
- 10.8 **Rates**
- The prices that UNICOM 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. UNICOM must provide to its account manager a written request with a requested activation date to activate this service. If UNICOM is interested in requesting CNAM with volume and term pricing, UNICOM 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 UNICOM the capability that will allow UNICOM 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 UNICOM. Scheduling procedures shall provide UNICOM equivalent priority to these resources.

11.4.2 BellSouth SCP shall partition and protect UNICOM service logic and data from unauthorized access, execution or other types of compromise.

11.4.3 When UNICOM selects SCE/SMS AIN Access, BellSouth shall provide training, documentation, and technical support to enable UNICOM 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 UNICOM selects SCE/SMS AIN Access, BellSouth shall provide for a secure, controlled access environment in association with its internal use of AIN components. UNICOM access will be provided via remote data connection (e.g., dial-in, ISDN).
- 11.4.5 When UNICOM selects SCE/SMS AIN Access, BellSouth shall allow UNICOM 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 UNICOM 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 UNICOM orders network elements and other services, then UNICOM 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 UNICOM 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. UNICOM 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. UNICOM will be required to route that call to BellSouth at the appropriate tandem or end office. When a municipality converts to E911 service, UNICOM will be required to discontinue the Basic 911 procedures and being using E911 procedures.

12.5.2 E911 Service Provisioning. For E911 service, UNICOM will be required to install a minimum of two dedicated trunks originating from UNICOM 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. UNICOM will be required to provide BellSouth daily updates to the E911 database. UNICOM 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, UNICOM 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. UNICOM 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 UNICOM beyond applicable charges for BellSouth trunking arrangements.
- 12.5.4 Basic 911 and E911 functions provided to UNICOM 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 UNICOM 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 true-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 UNICOM 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 UNICOM and pursuant to which BellSouth, its LIDB customers and UNICOM shall have access to such information. UNICOM 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 UNICOM, 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 UNICOM of fraud alerts so that UNICOM may take action it deems appropriate. UNICOM understands and agrees BellSouth will administer all data stored in the LIDB, including the data provided by UNICOM pursuant to this Agreement, in the same manner as BellSouth's data for BellSouth's end user customers. BellSouth shall not be responsible to UNICOM 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.

UNICOM understands that BellSouth currently has in effect numerous billing and collection agreements with various interexchange carriers and billing clearing houses. UNICOM 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, UNICOM 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 UNICOM'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 UNICOM's data from



BellSouth's data and the Parties to this Agreement execute appropriate amendments hereto, the following terms and conditions shall apply:

- (a) UNICOM agrees that it will accept responsibility for telecommunications services billed by BellSouth for its billing and collection customers for UNICOM's end user accounts which are resident in LIDB pursuant to this Agreement. UNICOM authorizes BellSouth to place such charges on UNICOM's bill from BellSouth and agrees that it shall pay all such charges. Charges for which UNICOM 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) UNICOM shall have the responsibility to render a billing statement to its end users for these charges, but UNICOM's obligation to pay BellSouth for the charges billed shall be independent of whether UNICOM is able or not to collect from UNICOM's end users.
- (d) BellSouth shall not become involved in any disputes between UNICOM and the entities for which BellSouth performs billing and collection. BellSouth will not issue adjustments for charges billed on behalf of an entity to UNICOM. It shall be the responsibility of UNICOM 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. UNICOM will not be charged a fee for storage services provided by BellSouth to UNICOM, 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 UNICOM. UNICOM shall have the right to have BellSouth contest with the imposing jurisdiction, at UNICOM's expense, any such taxes that UNICOM 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. UNICOM 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 UNICOM 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 UNICOM 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 \_\_\_\_\_ ("UNICOM"), effective the \_\_\_\_ day of \_\_\_\_\_.

**I. GENERAL**

This Addendum sets forth the terms and conditions for UNICOM'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 UNICOM, 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 UNICOM 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 UNICOM.
- C. Special billing number - a ten digit number that identifies a billing account established by UNICOM.
- D. Calling Card number - a billing number plus PIN number.
- E. PIN number - a four digit security code assigned by UNICOM 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 UNICOM.
- 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 UNICOM.

### **III. RESPONSIBILITIES OF PARTIES**

- A. UNICOM 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 UNICOM. Under normal operating conditions, BellSouth shall include UNICOM'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 UNICOM'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 UNICOM 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 UNICOM, and where the last four digits (PIN) are a security code assigned by UNICOM.
  - 2. Determine whether UNICOM or the subscriber has identified the billing number as one which should not be billed for collect or third number calls, or both.
- E. UNICOM will provide its own billing number information to BellSouth for storage and to be used for Billed Number Screening and Calling Card Validation. UNICOM will arrange and pay for transport of updates to BellSouth.

### **IV. COMPLIANCE**

Unless expressly authorized in writing by UNICOM, 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 UNICOM 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 UNICOM access to the BellSouth CNAM SCP for query or record storage purposes.

2.2 UNICOM 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 UNICOM's access to BellSouth's CNAM Database Services and shall be addressed to UNICOM's Account Manager.

### **3. Physical Connection and Compensation**

3.1 BellSouth's provision of CNAM Database Services to UNICOM requires interconnection from UNICOM 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, UNICOM shall provide its own CNAM SSP. UNICOM's CNAM SSPs must be compliant with TR-NWT-001188, "CLASS Calling Name Delivery Generic Requirements".

3.3 If UNICOM 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 UNICOM 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 UNICOM for initial CNAM record load and/or updates shall be determined by mutual agreement. The initial load and all updates shall be



provided by UNICOM in the BellSouth specified format and shall contain records for every working telephone number that can originate phone calls. It is the responsibility of UNICOM 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 UNICOM 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/CLEC-1 RATES  
NETWORK ELEMENTS  
AND OTHER SERVICES

DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
<b>NID (all types), per month</b>	UNDAX	NA	\$1.08	NA	\$1.80	NA	NA	\$0.52	NA	\$0.56
<b>Installation of 2-Wire/4Wire CLEC NID</b>	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
<b>NID to NID Cross Connect, 2-Wire or 4-Wire, NRC</b>	UNDC2	NA	\$6.15	NA	NA	NA	NA	NA	NA	NA
<b>NID per 2-Wire Analog VG Loop, Per Month</b>	UNDAX	\$1.18	NA	\$1.10	NA	\$1.09	\$1.22	NA	\$1.13	NA
NRC - 1st	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.36	NA
NRC - Add'l	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.36	NA
NRC - Disconnect Charge - 1st	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	\$17.77	NA	NA	NA	\$11.41	\$16.06	NA	NA	NA
<b>NID per 4-Wire Analog VG Loop, Per Month</b>	UNDAX	\$1.30	NA	\$1.21	NA	\$1.22	\$1.34	NA	\$1.25	NA
NRC - 1st	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.35	NA
NRC - Add'l	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.35	NA
NRC - Disconnect Charge - 1st	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.06	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	\$17.77	NA	NA	NA	\$11.41	\$16.06	NA	NA	NA
<b>NID per 2-Wire ISDN Digital VG Loop, Per Month</b>	UNDAX	\$1.18	NA	\$1.10	NA	\$1.08	\$1.22	NA	\$1.13	NA
NRC - 1st	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.36	NA
NRC - Add'l	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.36	NA
NRC - Disconnect Charge - 1st	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	\$17.77	NA	NA	NA	\$11.41	\$16.06	NA	NA	NA
<b>NID per 2-Wire Asymmetrical Dig Subscriber Line (ADSL) Loop, Per Mo.</b>	UNDAX	\$1.18	NA	\$1.10	NA	\$1.09	\$1.22	NA	\$1.13	NA
NRC - 1st	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.36	NA
NRC - Add'l	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.36	NA
NRC - Disconnect Charge - 1st	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	\$17.77	NA	NA	NA	\$11.41	\$16.06	NA	NA	NA
<b>NID per 2-Wire High Bit Rate Dig Subscriber Line (HDSL) Loop</b>	UNDAX	\$1.18	NA	\$1.10	NA	\$1.09	\$1.22	NA	\$1.13	NA
NRC - 1st	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.36	NA
NRC - Add'l	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.36	NA
NRC - Disconnect Charge - 1st	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.42	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA
NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	\$17.77	NA	NA	NA	\$11.41	\$16.06	NA	NA	NA
<b>NID per 4-Wire High Bit Rate Dig Subscriber Line (HDSL) Loop</b>	UNDAX	\$1.30	NA	\$1.21	NA	\$1.21	\$1.34	NA	\$1.25	NA
NRC - 1st	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.35	NA
NRC - Add'l	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.35	NA
NRC - Disconnect Charge - 1st	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Disconnect Charge - Add'l	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.06	NA
NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA

BELLSOUTH/CLC-1 RATES  
NETWORK ELEMENTS  
AND OTHER SERVICES

	NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	\$17.77	NA	NA	NA	\$11.41	\$16.06	NA	NA	NA
	<b>NID per 4-Wire 56 Kbps Dig Grade Loop</b>	UNDAX	\$1.30	NA	\$1.21	NA	\$1.21	\$1.34	NA	\$1.25	NA
	NRC - 1st	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.35	NA
	NRC - Add'l	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.35	NA
	NRC - Disconnect Charge - 1st	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
	NRC - Disconnect Charge - Add'l	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.06	NA
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA
	NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	\$17.77	NA	NA	NA	\$11.41	\$16.06	NA	NA	NA
	<b>NID per 4-Wire 64 Kbps Dig Grade Loop</b>	UNDAX	\$1.30	NA	\$1.21	NA	\$1.21	\$1.34	NA	\$1.25	NA
	NRC - 1st	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.35	NA
	NRC - Add'l	UNDAX	\$1.44	NA	\$2.10	NA	\$2.02	\$2.84	NA	\$1.35	NA
	NRC - Disconnect Charge - 1st	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
	NRC - Disconnect Charge - Add'l	UNDAX	\$1.44	NA	NA	NA	\$2.01	\$2.84	NA	NA	NA
	NRC - Incremental Charge - Manual Svc Ord - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.06	NA
	NRC - Incremental Charge - Manual Svc Ord - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA
	NRC - Incremental Charge - Manual Svc Ord - Disconnect	SOMAN	\$17.77	NA	NA	NA	\$11.41	\$16.06	NA	NA	NA
	<b>NID per 2-Wire Unbundled Copper Loop, per month</b>	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
	<b>Nonrecurring Charge - customer transfer, feature additions, changes (1)</b>		\$5.00	NA	NA	NA	NA	\$5.00	NA	NA	NA
	<b>LOOP, EXCLUDING NID</b>										
	<b>2-Wire Analog VG Loop (Standard), per month</b>	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
	<b>2-Wire Analog VG Loop (Customized), per month</b>	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
	<b>4-Wire Analog VG Loop (Standard), per month</b>	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
	<b>2-Wire ISDN Digital Grade Loop (Standard), per month</b>	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
	<b>2-Wire ADSL Loop (Standard), per month</b>	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
	<b>2-Wire HDSL Loop (Standard), per month</b>	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
	<b>4-Wire HDSL Loop (Standard), per month</b>	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
	<b>LOOP, INCLUDING NID</b>										
	<b>2-Wire Analog VG Loop</b>										

BELLSOUTH/CLC-1 RATES  
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	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
	<b>2-Wire Analog VG Loop-SL1</b>										
	RC - Statewide, per month	UEAL2	\$19.04	\$17.00	\$16.51	NA	\$19.35	\$21.26	\$16.71	\$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	\$21.78	\$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	\$86.50	\$70.44	\$78.93
	NRC - Add'l	UEAL2	\$43.14	\$55.00	\$31.33	NA	\$29.96	\$43.67	\$27.80	\$44.05	\$50.96
	NRC - Disconnect Charge - 1st	UEAL2	\$15.21	NA	NA	NA	\$16.48	\$16.35	NA	NA	NA
	NRC - Disconnect Charge - Add'l	UEAL2	\$3.22	NA	NA	NA	\$3.36	\$4.06	NA	NA	NA
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.22	NA
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA
	NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	\$17.77	NA	NA	NA	\$11.41	\$18.06	NA	NA	NA
	NRC - Loop Make-Up	UEANM	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	<b>2-Wire Analog VG Loop-SL2 w/loop or ground start signaling</b>										
	RC - Statewide, per month	UEAL2	\$22.43	\$17.00	\$19.57	NA	\$22.84	\$25.05	\$25.89	\$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	\$99.89	\$144.01	\$192.84	\$178.12	\$192.97
	NRC - Add'l	UEAL2	\$108.40	\$42.00	\$78.10	NA	\$74.73	\$107.70	\$140.49	\$128.80	\$140.72
	NRC - Disconnect Charge - 1st	UEAL2	\$40.31	NA	NA	NA	\$28.73	\$40.98	NA	NA	NA
	NRC - Disconnect Charge - Add'l	UEAL2	\$26.01	NA	NA	NA	\$18.87	\$26.95	NA	NA	NA
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.42	NA
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA
	NRC - Incremental Charge - Manual Service Order - Disconnect	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	\$55.00	\$45.43	\$55.00
	<b>2-Wire Analog VG Loop-SL2 w/ reverse battery signaling</b>										
	RC - Statewide, per month	UEAR2	\$22.43	\$17.00	\$19.57	NA	\$22.84	\$25.05	\$25.89	\$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	\$99.89	\$144.01	\$192.84	\$178.12	\$192.97
	NRC - Add'l	UEAR2	\$108.40	\$42.00	\$78.10	NA	\$74.73	\$107.70	\$140.49	\$128.80	\$140.72
	NRC - Disconnect Charge - 1st	UEAR2	\$40.31	NA	NA	NA	\$28.73	\$40.98	NA	NA	NA
	NRC - Disconnect Charge - Add'l	UEAR2	\$26.01	NA	NA	NA	\$18.87	\$26.95	NA	NA	NA
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.42	NA
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$13.55	NA
	NRC - Incremental Charge - Manual Service Order - Disconnect	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	\$55.00	\$45.43	\$55.00
	<b>2-Wire Analog VG Loop (Standard)</b>										
	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

BELLSOUTH/LEC-1 RATES  
NETWORK ELEMENTS  
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	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
	<b>2-Wire Analog VG Loop (Customized), w/ loop or ground start signaling</b>										
	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
	<b>2-Wire Analog VG Loop (Customized), w/ reverse battery signaling</b>										
	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
	<b>4-Wire Analog VG Loop</b>										
	RC - Statewide, per month	UEAL4	\$30.00	\$30.00	\$26.86	NA	\$31.52	\$30.55	\$27.20	\$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	\$78.35	\$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	\$86.50	\$383.39	\$58.50
	NRC - Add'l	UEAL4	\$241.76	\$43.00	\$170.57	NA	\$163.26	\$238.19	\$27.80	\$286.77	\$31.00
	NRC - Disconnect Charge - 1st	UEAL4	\$108.96	NA	NA	NA	\$74.27	\$108.14	NA	NA	NA
	NRC - Disconnect Charge - Add'l	UEAL4	\$57.01	NA	NA	NA	\$39.44	\$57.28	NA	NA	NA
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.06	NA
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$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	\$45.99	\$55.00	\$34.22	NA	\$32.77	\$45.27	\$55.00	\$45.43	\$55.00
	<b>4-Wire Analog VG Loop (Standard)</b>										
	RC - Statewide, per month	UEAL4	NA	NA	NA	\$26.28	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
	<b>2-Wire ISDN Digital Grade Loop</b>										
	RC - Statewide, per month	U1L2X	\$29.03	\$40.00	\$25.43	NA	\$27.36	\$29.83	\$27.20	\$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

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	RC - Zone 3, per month (Note 2)	TBD	\$43.42	\$104.47	\$40.17	NA	\$40.56	\$41.40	TBD	\$53.29	\$29.02	
	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	\$276.96	\$423.04	\$58.50	
	NRC - Add'l	U1L2X	\$255.87	\$283.00	\$180.35	NA	\$172.63	\$252.00	\$234.99	\$301.75	\$31.00	
	NRC - Disconnect Charge - 1st	U1L2X	\$108.95	NA	NA	NA	\$74.27	\$108.14	NA	NA	NA	
	NRC - Disconnect Charge - Add'l	U1L2X	\$57.01	NA	NA	NA	\$39.44	\$57.27	NA	NA	NA	
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.42	NA	
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$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	\$45.99	\$55.00	\$34.22	\$55.00	\$32.77	\$45.27	\$55.00	\$45.43	\$55.00	
	<b>2-Wire ISDN Digital Grade Loop (Standard)</b>											
	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	
	<b>2-Wire Asymmetrical Dig Subscriber Line (ADSL) Compatible Loop</b>											
	RC - Statewide, per month	UAL2X	\$15.11	\$15.81	\$13.05	NA	\$15.39	\$14.83	\$17.00	\$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	\$17.28	\$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	\$280.15	\$600.61	\$640.79	
	NRC - Add'l	UAL2X	\$464.58	\$99.61	\$325.15	NA	\$310.03	\$456.24	\$243.91	\$507.33	\$541.94	
	NRC - Disconnect Charge - 1st	UAL2X	\$106.65	NA	NA	NA	\$72.54	\$105.86	NA	NA	NA	
	NRC - Disconnect Charge - Add'l	SOMAN	\$56.98	NA	NA	NA	\$39.42	\$57.25	NA	NA	NA	
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.42	NA	
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$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	\$45.99	\$55.00	\$34.22	NA	\$32.77	\$45.27	\$55.00	\$45.43	\$55.00	
	<b>2-Wire ADSL Loop (Standard)</b>											
	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	
	<b>2-Wire High Bit Rate Dig Subscriber Line (HDSL) Compatible Loop</b>											
	RC - Statewide, per month	UHL2X	\$11.76	\$12.12	\$9.15	NA	\$11.61	\$11.60	\$17.00	\$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	\$280.15	\$600.61	\$640.79	
	NRC - Add'l	UHL2X	\$464.58	\$99.61	\$325.15	NA	\$310.03	\$456.24	\$243.91	\$507.33	\$541.94	
	NRC - Disconnect Charge - 1st	UHL2X	\$106.65	NA	NA	NA	\$72.54	\$105.86	NA	NA	NA	
	NRC - Disconnect Charge - Add'l	UHL2X	\$56.98	NA	NA	NA	\$39.42	\$57.25	NA	NA	NA	
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.42	NA	

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	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$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	\$45.99	\$55.00	\$34.22	NA	\$32.77	\$45.27	\$55.00	\$45.43	\$55.00
<b>2-Wire HDSL Loop (Standard)</b>											
	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	\$809.44	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
<b>4-Wire High Bit Rate Dig Subscriber Line (HDSL) Compatible Loop</b>											
	RC - Statewide, per month	UHL4X	\$14.39	\$18.24	\$12.07	NA	\$16.39	\$14.14	\$27.20	\$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	\$18.42	\$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	\$32.36	\$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	\$291.43	\$625.11	\$666.70
	NRC - Add'l	UHL4X	\$491.50	\$101.71	\$344.28	NA	\$326.36	\$482.63	\$255.46	\$532.78	\$568.86
	NRC - Disconnect Charge - 1st	UHL4X	\$106.85	NA	NA	NA	\$72.54	\$105.86	NA	NA	NA
	NRC - Disconnect Charge - Add'l	UHL4X	\$56.96	NA	NA	NA	\$36.42	\$57.25	NA	NA	NA
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	\$44.08	NA
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$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	\$45.99	\$55.00	\$34.22	NA	\$32.77	\$45.27	\$55.00	\$45.43	\$55.00
<b>4-Wire HDSL Loop (Standard)</b>											
	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
<b>4-Wire DS1 Digital Loop</b>											
	RC - Statewide, per month	USLXX	\$64.65	\$80.00	\$64.52	\$67.96	\$72.86	\$69.59	\$151.50	\$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	\$429.96	\$649.80	\$410.38	\$599.09	\$568.96	\$715.77	TBD
	NRC - Add'l	USLXX	\$380.26	\$465.00	\$266.18	\$523.27	\$255.48	\$373.90	\$335.56	\$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	NA	\$43.77	NA
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	\$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	NA	\$48.47	NA
<b>4-Wire 56 Kbps Dig Grade Loop</b>											
	RC - Statewide, per month	UDL56	\$34.15	\$48.33	\$29.92	NA	\$35.58	\$34.95	\$40.12	\$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

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	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	\$642.74	\$602.73	\$643.00	
	NRC - Add'l	UDL56	\$343.70	\$428.45	\$241.20	NA	\$230.50	\$337.93	\$421.02	\$393.50	\$421.28	
	NRC - Disconnect Charge - 1st	UDL56	\$129.82	NA	NA	NA	\$87.99	\$128.36	NA	\$44.06	NA	
	NRC - Disconnect Charge - Add'l	UDL56	\$64.25	NA	NA	NA	\$44.24	\$64.35	NA	\$13.55	NA	
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	NA	NA	
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	NA	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	\$45.99	\$55.00	\$34.22	NA	\$32.77	\$45.27	\$55.00	\$45.43	\$55.00	
	<b>4-Wire 64 Kbps Dig Grade Loop</b>											
	RC - Statewide, per month	UDL64	\$34.15	\$48.33	\$29.22	NA	\$36.58	\$34.95	\$40.12	\$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	\$51.87	\$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	\$642.74	\$602.73	\$643.00	
	NRC - Add'l	UDL64	\$343.70	\$428.45	\$241.20	NA	\$230.50	\$337.93	\$421.02	\$393.50	\$421.28	
	NRC - Disconnect Charge - 1st	UDL64	\$129.82	NA	NA	NA	\$87.99	\$128.36	NA	\$44.06	NA	
	NRC - Disconnect Charge - Add'l	UDL64	\$64.25	NA	NA	NA	\$44.24	\$64.35	NA	\$13.55	NA	
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$27.37	NA	\$18.94	NA	\$18.14	\$25.52	NA	NA	NA	
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	NA	\$8.42	NA	\$8.06	\$11.34	NA	NA	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	\$45.99	\$55.00	\$34.22	NA	\$32.77	\$45.27	\$55.00	\$45.43	\$55.00	
	<b>2-Wire Unbundled Copper Loop</b>											
	RC - Statewide, per month	UCLPB	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00	\$23.00
	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	\$36.81	
	RC - Zone 4, per month (Note 2)	TBD	NA	NA	NA	NA	NA	\$42.13	NA	NA	NA	
	NRC - 1st	UCLPB	\$560.00	\$560.00	\$560.00	\$560.00	\$560.00	\$560.00	\$560.00	\$560.00	\$560.00	\$560.00
	NRC - Add'l	UCLPB	\$460.00	\$460.00	\$460.00	\$460.00	\$460.00	\$460.00	\$460.00	\$460.00	\$460.00	\$460.00
	NRC - Disconnect Charge - 1st	UCLPB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NRC - Disconnect Charge - Add'l	UCLPB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	\$47.00	\$47.00	\$47.00	\$47.00	\$47.00	\$47.00	\$47.00	\$47.00	\$47.00	\$47.00
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00	\$21.00
	NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00
	NRC - Incremental Charge - Manual Order Coordination - per loop	UCLMC	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00	\$16.00
	<b>DSS Unbundled Local Loop</b>											
	DS3 Unbundled Local Loop - per mile	1LSND	\$43.98	\$40.01	\$29.96	\$43.69	\$38.98	\$54.39	\$32.53	\$56.71	\$30.53	



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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
<b>STS-1 Unbundled Local Loop</b>											
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
NRC - STS-1 - Facility Termination - 1st		UDLS1	\$973.58	\$770.47	\$770.96	\$1,091.00	\$709.14	\$975.22	\$964.04	\$1,091.00	\$726.16
NRC - 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
NRC - STS-1 - Facility Termination - Disconnect - 1st		UDLS1	\$132.56	\$108.95	\$111.07	NA	\$102.16	\$134.07	\$131.65	NA	\$103.36
NRC - 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
<b>Unbundled Sub-Loops</b>											
<b>Sub-Loop Analog</b>											
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	\$265.00
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
NRC - Set-Up per Cross Box location - CLEC Feeder Facility set-up		USBSA	TBN	TBD	TBN	TBN	TBN	TBN	TBN	TBN	TBD
NRC - Set-Up per Cross Box location - per 25 pair panel set-up		USBSB	TBN	TBD	TBN	TBN	TBN	TBN	TBN	TBN	TBD
NRC - 1st		USBN4	TBN	\$112.07	TBN	TBN	TBN	TBN	TBN	TBN	TBD
NRC - Add'l		USBN4	TBN	\$92.11	TBN	TBN	TBN	TBN	TBN	TBN	TBD
NRC - Incremental Charge - Manual Order Coordination - per loop		USBMC	TBN	TBD	TBN	TBN	TBN	TBN	TBN	TBN	TBD
<b>Sub-Loop Intra-building Network Cable (INC) (riser cable), 2W analog, per month</b>											
NRC - Set-Up per Building Equipment Room - CLEC Feeder Facility set-up		USBSR2	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		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

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	NRC - Incremental Charge - Manual Service Order - 1st	SOMAN	TBN	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	TBN
	NRC - Incremental Charge - Manual Service Order - Disconnect	SOMAN	TBN	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	TBN
	Sub-Loop Intra-building Network Cable (INC) (riiser cable), 4W analog, per month	USBR4	TBN	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	TBN
	NRC - Set-Up per Building Equipment Room - per 25 pair panel set-up	USBSD	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
	NRC - 1st	USBR4	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
	NRC - Add'l	USBR4	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
	NRC - Disconnect Charge - 1st	USBR4	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN	TBN
	NRC - Disconnect Charge - Add'l	USBR4	TBN	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	TBN
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	TBN	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	TBN
	NRC - Incremental Charge - Manual Order Coordination - per loop	USBMC	TBN	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	NA	\$1.31
	Site Visit Survey, per MDU/MTU Complex, NRC	UENVS	TBN	\$225.00	\$225.00	\$225.00	NA	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	TBN	\$98.00
	NRC - Add'l terminal	UENSS	TBN	\$65.00	\$65.00	\$65.00	TBN	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	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	TBN	\$35.00
	UNTW Pair Provisioning, per pair, NRC	UENPP	TBN	\$9.00	\$9.00	\$9.00	TBN	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	TBN	\$55.00
	Manual Service Order, NRC	MOCLA	TBN	\$45.00	\$45.00	\$45.00	TBN	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	BFR	TBD
	NRC - Incremental Charge - Manual Service Order - Add'l	SOMAN	\$12.97	TBD	\$8.42	TBD	BFR	BFR	BFR	BFR	BFR	TBD
	TR006 - System A (96 channel capacity - channels 1-96), per month	UCT8A	NA	\$792.49	\$724.79	\$757.00	NA	NA	NA	NA	NA	\$683.78
	NRC - 1st	UCT8A	NA	\$640.93	\$632.36	\$633.94	NA	NA	NA	NA	NA	\$634.31
	NRC - Add'l	UCT8A	NA	\$315.03	\$310.82	\$311.60	NA	NA	NA	NA	NA	\$311.78
	TR006 - System B (96 channel capacity - channels 97-192), per month											
	NRC - 1st	UCT8B	NA	\$640.93	\$632.36	\$633.94	NA	NA	NA	NA	NA	\$634.31
	NRC - Add'l	UCT8B	NA	\$315.03	\$310.82	\$311.60	NA	NA	NA	NA	NA	\$311.78
	TR303 - System A (96 channel capacity - channels 1-96), per month											
	NRC - 1st	UCT3A	NA	\$640.93	\$632.36	\$633.94	NA	NA	NA	NA	NA	\$634.31
	NRC - Add'l	UCT3A	NA	\$315.03	\$310.82	\$311.60	NA	NA	NA	NA	NA	\$311.78
	TR303 - System B (96 channel capacity - channels 97-192), per month											
	NRC - 1st	UCT3B	NA	\$198.55	\$132.54	\$138.55	NA	NA	NA	NA	NA	\$145.21
	NRC - Add'l	UCT3B	NA	\$640.93	\$632.36	\$633.94	NA	NA	NA	NA	NA	\$634.31
	DS1 Feeder Interface, per month											
	NRC 1st	UCTFS	NA	\$78.43	\$72.12	\$77.02	NA	NA	NA	NA	NA	\$76.73
	NRC Add'l	UCTFS	NA	\$422.74	\$425.74	\$418.13	NA	NA	NA	NA	NA	\$418.37
	Channel Interface - 2 Wire Voice - Loop Start , per month											
	NRC 1st	TBD	NA	\$2.62	\$2.38	\$2.68	NA	NA	NA	NA	NA	\$2.61
	NRC Add'l	TBD	NA	\$42.39	\$41.82	\$41.92	NA	NA	NA	NA	NA	\$41.95
	Channel Interface - 2 Wire ISDN, per month											
	NRC 1st	ULCC1	NA	\$42.15	\$41.58	\$41.69	NA	NA	NA	NA	NA	\$41.71
	NRC Add'l	ULCC1	NA	\$10.49	\$9.53	\$10.72	NA	NA	NA	NA	NA	\$10.43
	Channel Interface - 2 Wire Voice - Ground Start or Reverse Battery, per month											
	NRC 1st	TBD	NA	\$42.39	\$41.82	\$41.92	NA	NA	NA	NA	NA	\$41.95
	NRC Add'l	TBD	NA	\$42.15	\$41.58	\$41.69	NA	NA	NA	NA	NA	\$41.71
	Channel Interface - 4 Wire Voice, per month											
	NRC 1st	ULCC4	NA	\$9.30	\$8.45	\$9.50	NA	NA	NA	NA	NA	\$9.26

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	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 Circuit, per month											
	NRC 1st	UCTTC	NA	\$45.46	\$41.30	\$46.44	NA	NA	NA	NA	\$45.22
	NRC Add'l	UCTTC	NA	\$42.39	\$41.82	\$41.92	NA	NA	NA	NA	\$41.95
Channel Interface - Digital 56Kbps, per month											
	NRC 1st	ULCC5	NA	\$13.78	\$12.51	\$14.08	NA	NA	NA	NA	\$13.71
	NRC Add'l	ULCC5	NA	\$42.39	\$41.82	\$41.92	NA	NA	NA	NA	\$41.95
Channel Interface - Digital 64Kbps, per month											
	NRC 1st	ULCC6	NA	\$13.78	\$12.51	\$14.08	NA	NA	NA	NA	\$13.71
	NRC Add'l	ULCC6	NA	\$42.39	\$41.82	\$41.92	NA	NA	NA	NA	\$41.95
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	\$8.08	\$11.34	TBD	\$13.55	TBD
TR006 - System A (96 channel capacity - channels 1-96), per month											
	NRC - 1st	UCT8A	\$327.44	\$400.33	\$316.63	\$394.00	\$308.74	\$454.79	\$375.98	\$399.21	\$390.06
	NRC - Add'l	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
TR006 - System B (96 channel capacity - channels 97-192), per month											
	NRC - 1st	UCT8B	\$67.41	\$70.48	\$65.27	\$72.21	\$76.58	\$73.30	\$65.98	\$71.91	\$68.71
	NRC - Add'l	UCT8B	\$464.57	\$470.41	\$463.37	\$465.11	\$465.64	\$464.71	\$463.74	\$466.38	\$464.21
TR303 - System A (96 channel capacity - channels 1-96), per month											
	NRC - 1st	UCT3A	\$375.18	\$450.24	\$362.67	\$445.14	\$385.97	\$506.70	\$422.68	\$450.13	\$428.73
	NRC - Add'l	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
TR303 - System B (96 channel capacity - channels 97-192), per month											
	NRC - 1st	UCT3B	\$111.30	\$118.76	\$110.02	\$121.45	\$129.06	\$123.52	\$111.17	\$121.16	\$115.79
	NRC - Add'l	UCT3B	\$464.57	\$470.41	\$463.37	\$465.11	\$465.64	\$464.71	\$463.74	\$466.38	\$464.21
DS1 Interface, per month											
	NRC 1st	UCTCO	\$6.42	\$6.47	\$6.15	\$403.20	\$7.35	\$8.99	\$6.27	\$6.79	\$6.49
	NRC Add'l	UCTCO	\$367.70	\$372.32	\$366.72	\$132.18	\$368.54	\$367.80	\$367.04	\$369.13	\$367.41
Channel Interface - 2 Wire Voice - Loop Start, per month											
	NRC 1st	TBD	\$2.55	\$2.66	\$2.44	\$2.79	\$2.91	\$2.77	\$2.48	\$2.69	\$2.58
	NRC Add'l	TBD	\$36.55	\$36.02	\$35.48	\$35.62	\$35.66	\$35.37	\$35.51	\$35.71	\$35.54
Channel Interface - 2 Wire ISDN, per month											
	NRC 1st	ULCC1	\$10.19	\$10.67	\$9.78	\$11.18	\$11.66	\$11.10	\$9.95	\$10.76	\$10.30
	NRC Add'l	ULCC1	\$36.55	\$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											
	NRC 1st	TBD	\$15.15	\$15.85	\$14.51	\$16.62	\$17.33	\$16.46	\$14.80	\$16.01	\$15.32
	NRC Add'l	TBD	\$36.55	\$36.02	\$35.48	\$35.62	\$35.66	\$35.37	\$35.51	\$35.71	\$35.54
Channel Interface - 4 Wire Voice, per month											
	NRC 1st	ULCC4	\$9.04	\$9.44	\$8.65	\$9.91	\$10.34	\$9.83	\$8.82	\$9.55	\$9.13
	NRC Add'l	ULCC4	\$36.55	\$36.02	\$35.48	\$35.62	\$35.66	\$35.37	\$35.51	\$35.71	\$35.54
Test Circuit, per month											
	NRC 1st	UCTTC	\$44.16	\$46.14	\$42.30	\$48.43	\$50.53	\$47.85	\$43.13	\$48.66	\$44.65
	NRC Add'l	UCTTC	\$36.55	\$36.02	\$35.48	\$35.62	\$35.66	\$35.37	\$35.51	\$35.71	\$35.54
Channel Interface - Digital 56Kbps, per month											
	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											
	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 four fiber 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	\$62.67
	NRC - Per each four-fiber dark fiber arrangement - 1st	1L5DF	\$2,518.66	\$1,715.81	\$1,955.29	\$2,304.00	\$1,685.19	\$2,389.99	\$2,277.00	\$2,406.00	\$1,672.44

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		NRC - Per each four-fiber dark fiber arrangement - Add'l	1L5DF	\$835.08	\$622.68	\$273.69	\$740.83	\$580.11	\$804.32	\$733.08	\$765.30	\$509.09
		<b>NOTES:</b>										
	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 10892-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.										

- 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 UNICOM data to the LIDB shall be solely at the direction of UNICOM. Such direction from UNICOM 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 UNICOM data upon UNICOM'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 UNICOM customer records will be missing from LIDB, as measured by UNICOM audits. BellSouth will audit UNICOM records in LIDB against DBAS to identify record mismatches and provide this data to a designated UNICOM contact person to resolve the status of the records and BellSouth will update system appropriately. BellSouth will refer record of mis-matches to UNICOM within one business day of audit. Once reconciled records are received back from UNICOM, 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 UNICOM 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 UNICOM'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 UNICOM 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 UNICOM and BellSouth.
- 8.2.4.11 BellSouth shall prevent any access to or use of UNICOM 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 UNICOM in writing.
- 8.2.4.12 BellSouth shall provide UNICOM 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 UNICOM at least at parity with BellSouth Customer Data. BellSouth shall obtain from UNICOM the screening

**EXHIBIT 2**

**Attachment 11  
BellSouth Disaster Recovery Plan**

**2000  
BELLSOUTH**

**DISASTER RECOVERY PLANNING**

**For**

**CLECS**

**March 22, 2000**

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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 than 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](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 and the transfer will be transparent to the CLEC.