

**Amendment to the Agreement
Between
Image Access, Inc. d/b/a New Phone
and
BellSouth Telecommunications, Inc.
Dated June 19, 2002**

Pursuant to this Amendment, (the "Amendment"), Image Access, Inc. d/b/a New Phone ("New Phone"), and BellSouth Telecommunications, Inc. ("BellSouth"), hereinafter referred to collectively as the "Parties," hereby agree to amend that certain Interconnection Agreement between the Parties dated June 19, 2002 ("Agreement") to be effective thirty (30) calendar days after the date of the last signature executing the Amendment.

WHEREAS, BellSouth and New Phone entered into the Agreement on June 19, 2002, 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. Attachment 1, Resale of the Agreement is hereby deleted and replaced by the rates, terms and conditions in Exhibit 1 to this Agreement, incorporated herein by reference.
2. Attachment 2, Network Elements and Other Services of the Agreement is hereby deleted and replaced by the terms and conditions in Exhibit 2 to this Agreement, incorporated herein by reference.
3. All of the other provisions of the Agreement, dated June 19, 2002, shall remain in full force and effect.
4. Either or both of the Parties are 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 have executed this Agreement the day and year
written below.

BellSouth Telecommunications, Inc.

Image Access, Inc. d/b/a New Phone

By: Pat C Finkle
Name: PATRICK C. FINKLE
Title: ASSR DIRECTOR
Date: 11/11/03

By: [Signature]
Name: GENE DRY
Title: PRESIDENT
Date: 11/10/03

Attachment 1

Resale

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RESALE

1. Discount Rates

The rates pursuant by which New Phone is to purchase services from BellSouth for resale shall be at a discount rate off of the retail rate for the telecommunications service. The discount rates shall be as set forth in Exhibit F, attached hereto and incorporated herein by this reference. Such discount shall reflect the costs avoided by BellSouth when selling a service for wholesale purposes.

2. Definition of Terms

- 2.1 CUSTOMER OF RECORD means the entity responsible for placing application for service; requesting additions, rearrangements, maintenance or discontinuance of service; payment in full of charges incurred such as non-recurring, monthly recurring, toll, directory assistance, etc.
- 2.2 DEPOSIT means assurance provided by a customer in the form of cash, surety bond or bank letter of credit to be held by BellSouth.
- 2.3 END USER means the ultimate user of the telecommunications services.
- 2.4 END USER CUSTOMER LOCATION means the physical location of the premises where an end user makes use of the telecommunications services.
- 2.5 NEW SERVICES means functions, features or capabilities that are not currently offered by BellSouth. This includes packaging of existing services or combining a new function, feature or capability with an existing service.
- 2.6 COMPETITIVE LOCAL EXCHANGE COMPANY (CLEC) means a telephone company certificated by the public service commissions of BellSouth's franchised area to provide local exchange service within BellSouth's franchised area
- 2.7 RESALE means an activity wherein a certificated CLEC, such as New Phone subscribes to the telecommunications services of BellSouth and then reoffers those telecommunications services to the public (with or without "adding value").
- 2.8 RESALE SERVICE AREA means the area, as defined in a public service commission approved certificate of operation, within which an CLEC, such as New Phone, may offer resold local exchange telecommunications service.

3. General Provisions

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

BellSouth shall make available telecommunications services for resale at the rates set forth in Exhibit F to this Agreement and subject to the exclusions and limitations set forth in Exhibit A to this Agreement. The Parties do not however waive their rights to appeal or otherwise challenge any decision regarding resale that resulted in the discount rates contained in Exhibit F or the exclusions and limitations contained in Exhibit A. The Parties reserve the right to pursue any and all legal and/or equitable remedies, including appeals of any decisions. If such appeals or challenges result in changes in the discount rates or exclusions and limitations, the parties agree that appropriate modifications to this Agreement will be made promptly to make its terms

Exhibit 1

consistent with the outcome of the appeal. New Phone may purchase resale services from BellSouth for its own use in operating its business. The resale discount will apply to those services under the following conditions:

- 3.1.1 New Phone must resell services to other end users.
- 3.1.2 New Phone must order services through resale interfaces, i.e., the Local Carrier Service Center (LCSC) and/or appropriate Resale Account Teams pursuant to Section 3 of the General Terms and Conditions.
- 3.1.3 New Phone cannot be a competitive local exchange telecommunications company for the single purpose of selling to itself.
- 3.2 The provision of services by BellSouth to New Phone does not constitute a joint undertaking for the furnishing of any service.
- 3.3 New Phone will be the customer of record for all services purchased from BellSouth. Except as specified herein, BellSouth will take orders from, bill and expect payment from New Phone for all services.
- 3.4 New Phone will be BellSouth's single point of contact for all services purchased pursuant to this Agreement. BellSouth shall have no contact with the end user except to the extent provided for herein.
- 3.5 BellSouth will continue to bill the end user for any services that the end user specifies it wishes to receive directly from BellSouth.
- 3.6 BellSouth maintains the right to serve directly any end user within the service area of New Phone. BellSouth will continue to directly market its own telecommunications products and services and in doing so may establish, consistent with the provisions of Section 41.3 of the General Terms and Conditions, independent relationships with end users of New Phone.
- 3.7 Neither Party shall interfere with the right of any person or entity to obtain service directly from the other Party.
 - 3.7.1 When an End User of New Phone or BellSouth elects to change his/her carrier to the other Party, both Parties agree to release the End User's service to the other Party concurrent with the due date of the service order, which shall be established based on the standard interval for the End User's requested service as set forth in the BellSouth Product and Services Interval Guide.
 - 3.7.2 BellSouth and New Phone will refrain from contacting subscribers who have placed or whose selected carrier has placed on their behalf an order to change his/her service provider from BellSouth or New Phone to the other Party until such time that the order for service has been completed.
- 3.8 Current telephone numbers are assigned to the service furnished and may normally be retained by the end user. Neither Party has property rights to the telephone number or any other call number designation associated with services furnished by BellSouth. BellSouth reserves the right to change such numbers, or the central office designation associated with such numbers, or both in a non-discriminatory manner and at parity.
- 3.9 Where BellSouth provides local switching or resold services to New Phone, BellSouth will provide New Phone with on line access to intermediate telephone numbers as defined by applicable FCC rules and regulations on a first come first served basis. Such access to numbers shall be in accordance with the appropriate FCC rules and regulations. There may be instances

where there is a shortage of telephone numbers in a particular Common Language Location Identifier Code (CLLIC); and in such instances, New Phone shall return unused intermediate telephone numbers to BellSouth upon BellSouth's request. BellSouth shall make all such requests on a nondiscriminatory basis.

- 3.9.1 BellSouth will allow New Phone to designate up to 100 intermediate telephone numbers per CLLIC, for New Phone's sole use. Assignment, reservation and use of telephone numbers shall be governed by applicable FCC rules and regulations. New Phone acknowledges that there may be instances where there is a shortage of telephone numbers in a particular CLLIC and BellSouth has the right to limit access to blocks of intermediate telephone numbers. These instances include: 1) where jeopardy status has been declared by the North American Numbering Plan (NANP) for a particular Numbering Plan Area (NPA); or 2) where a rate center has less than six months supply of numbering resources.
- 3.10 Service is furnished subject to the condition that it will not be used for any unlawful purpose.
- 3.11 Service will be discontinued if any law enforcement agency advises that the service being used is in violation of the law.
- 3.12 BellSouth can refuse service when it has grounds to believe that service will be used in violation of the law.
- 3.13 BellSouth accepts no responsibility to any person for any unlawful act committed by New Phone or its end users as part of providing service to New Phone for purposes of resale or otherwise.
- 3.14 The characteristics and methods of operation of any circuits, facilities or equipment provided by any person or entity other than BellSouth shall not:
 - 3.14.1 Interfere with or impair service over any facilities of BellSouth, its affiliates, or its connecting and concurring carriers involved in its service;
 - 3.14.2 Cause damage to BellSouth's plant;
 - 3.14.3 Impair the privacy of any communications; or
 - 3.14.4 Create hazards to any BellSouth employees or the public.
- 3.15 Facilities and/or equipment utilized by BellSouth to provide service to New Phone remain the property of BellSouth.
- 3.16 White page directory listings will be provided in accordance with regulations set forth in Section A6 of the General Subscriber Services Tariff and will be available for resale.
- 3.17 BellSouth provides electronic access to customer record information. Access is provided through the Local Exchange Navigation System (LENS) and the Telecommunications Access Gateway (TAG). Customer Record Information includes but is not limited to, customer specific information in CRIS and RSAG. The Parties agree not to view, copy, or otherwise obtain access to the customer record information of any customer without that customer's permission, and further agree that New Phone and BellSouth will obtain access to customer record information only in strict compliance with applicable laws, rules, or regulations of the State in which the service is provided.

3.17.1 Operational Support Systems (OSS)

- 3.17.2 BellSouth shall provide pre-ordering, ordering and provisioning and maintenance and repair services to New Phone that are equivalent to the pre-ordering, ordering and provisioning and maintenance and repair services BellSouth provides to itself or any other CLEC, where technically feasible. BellSouth has developed and made available the following mechanized systems by which New Phone may submit LSRs electronically: Local Exchange Navigation System (LENS), Electronic Data Interchange (EDI) and Telecommunications Access Gateway (TAG). All costs incurred by BellSouth to develop and implement operational interfaces shall be recovered from CLECs who utilize the interfaces.
- 3.17.3 LSRs submitted by means of one of these interactive interfaces will incur an OSS electronic charge as set forth in Exhibit F to this Agreement. 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 set forth in Exhibit F to this Agreement. Supplements or clarifications to a previously billed LSR will not incur another OSS charge.
- 3.17.4 Denial/Restoral OSS Charge. In the event New Phone 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.
- 3.17.5 Cancellation OSS Charge. New Phone will incur an OSS charge for an accepted LSR that is later canceled. Supplements or clarifications to a previously billed LSR will not incur another OSS charge.
- 3.17.6 All costs incurred by BellSouth to develop and implement operational interfaces shall be recovered, from Resellers who utilize the services. Charges for use of Operational Support Systems (OSS) shall be as set forth in Exhibit F of this Agreement. Where available to BellSouth's end users, BellSouth shall provide the following telecommunications services at a discount to allow for voice mail services:
- Simplified Message Desk Interface - Enhanced ("SMDI-E")
 - Simplified Message Desk Interface ("SMDI") Message Waiting Indicator ("MWI") stutter dial tone and message waiting light feature capabilities
 - Call Forward on Busy/Don't Answer ("CF-B/DA")
 - Call Forward on Busy ("CF/B")
 - Call Forward Don't Answer ("CF/DA")

Further, BellSouth messaging services set forth in BellSouth's Messaging Service Information Package shall be made available for resale without the wholesale discount. BellSouth's Inside Wire Maintenance Service Plans may be made available for resale at rates, terms and conditions as set forth by BellSouth and without the wholesale discount.

In the event New Phone acquires an End User whose service is provided pursuant to a BellSouth Special Assembly, BellSouth shall make available to New Phone that Special Assembly at the wholesale discount at New Phone's option. New Phone shall be responsible for all terms and conditions of such Special Assembly including but not limited to termination liability if applicable.

BellSouth shall provide 911/E911 for New Phone End Users in the same manner that it is provided to BellSouth End Users. BellSouth shall provide and validate New Phone End User information to the PSAP. BellSouth shall use its service order process to update and maintain, on the same schedule that it uses for its customers, the New Phone customer service information in

the ALI/DMS (Automatic Location Identification/Location Information) databases used to support 911/E911 services.

- 3.19 Recovery of charges associated with implementing Number Portability through monthly charges assessed to end users has been authorized by the FCC. This end user line charge will be billed to Resellers of BellSouth's telecommunications services and will be as filed in FCC No. 1. This charge will not be discounted.
- 3.20 BellSouth shall notify New Phone in advance of long term promotions (offered for longer than ninety (90) days) by posting a notice on its website.
- 3.21 New Resale Services; Changes in Provision of Resale Services.

BellSouth shall use best efforts to provide New Phone forty-five (45) days advance notice via Internet posting of changes to the prices, terms or conditions of services available for Resale. To the extent that revisions occur between the time BellSouth notifies New Phone of changes under this Agreement and the time the changes are scheduled to be implemented, BellSouth will notify New Phone of such revisions consistent with its internal notification process; provided that, New Phone shall not utilize any notice given under this subsection to market resold offerings of that service in advance of BellSouth. In addition, upon request BellSouth shall furnish New Phone with copies of publicly available service descriptions regarding the Resale Services. Notwithstanding the foregoing, New Phone shall not utilize any such BellSouth service descriptions as part of its own sales or marketing efforts.

4. BellSouth's Provision of Services to New Phone

- 4.1 New Phone agrees that its resale of BellSouth services shall be as follows:
 - 4.1.1 The resale of telecommunications services shall be limited to users and uses conforming to the class of service restrictions.
 - 4.1.2 Hotel and Hospital PBX services are the only telecommunications services available for resale to Hotel/Motel and Hospital end users, respectively. Similarly, Access Line Service for Customer Provided Coin Telephones is the only local service available for resale to Independent Payphone Provider (IPP) customers. Shared Tenant Service customers can only be sold those local exchange access services available in BellSouth's A23 Shared Tenant Service Tariff in the states of Florida, Georgia, North Carolina and South Carolina, and in A27 in the states of Alabama, Kentucky, Louisiana, Mississippi and Tennessee.
 - 4.1.3 BellSouth reserves the right to periodically audit services purchased by New Phone to establish authenticity of use. Consistent with Section 4.2 below, such audit shall not occur more than once in a calendar year. New Phone shall make any and all records and data available to BellSouth or BellSouth's auditors on a reasonable basis. BellSouth shall bear the cost of said audit. Any information provided by New Phone for purposes of such audit shall be deemed Confidential Information pursuant to the General Terms and Conditions of this Agreement.
- 4.2 Resold services can only be used in the same manner as specified in BellSouth's Tariffs. Resold services are subject to the same terms and conditions as are specified for such services when furnished to an individual end user of BellSouth in the appropriate section of BellSouth's Tariffs. Specific tariff features, e.g., a usage allowance per month, shall not be aggregated across multiple resold services.

- 4.3 New Phone may resell services only within the specific resale service area as defined in its certificate.
- 4.4 Telephone numbers transmitted via any resold service feature are intended solely for the use of the end user of the feature. Resale of this information is prohibited.
- 4.5 Volume and Term. Notwithstanding anything in this Agreement to the contrary, BellSouth shall provide to New Phone a volume discount arrangement for those BellSouth residential services specified in this Section. Such volume discount arrangement shall be contingent upon and governed by the following terms and conditions:
- 4.5.1 New Phone and any assignees pursuant to Section 11 of the General Terms and Conditions shall maintain throughout the term of this Agreement at least 35,000 resold residential telecommunications lines from BellSouth.
- 4.5.2 In this Section, New Phone will utilize electronic ordering via one of the mechanized interfaces BellSouth has developed and made available to CLECs for all residential telecommunications services subject to such volume discount described in this Section and ordered by New Phone from BellSouth subsequent to the date hereof.
- 4.5.3 Except as otherwise expressly provided herein, the discount payable pursuant to this Section shall not be deemed to decrease, alter or otherwise affect any other charges payable by New Phone to BellSouth pursuant to this Agreement for the ordering, provisioning or maintenance of the services referenced herein, including but not limited to taxes, service charges and operational support system charges applicable to any such services or orders.
- 4.5.4 The Parties acknowledge that due to the functionality of BellSouth's billing systems, BellSouth is or may be unable to reflect applicable discounts on New Phone's initial bill for services described herein. All credits issued pursuant to this section shall be in arrears such that the applicable discount for a given billing cycle will be reflected on a subsequent bill. BellSouth, in its sole discretion, may apply BellSouth tariff rates less the applicable resale discount on initial monthly billing of any service to be discounted pursuant hereto, and New Phone shall pay such bills in full. Subject to New Phone maintaining the required volume of service and utilizing a BellSouth electronic ordering interface to order such services, BellSouth thereafter will apply credits, either the following month or on a quarterly basis, at BellSouth's sole discretion, to New Phone's bills in the amounts described herein to provide the discounts due to New Phone under this Section.
- 4.5.5 For each BellSouth bill period wherein New Phone maintains a minimum of 35,000 residential telecommunications lines from BellSouth for the entire bill period, BellSouth will offer a credit, equal to 100% of both the non-recurring and the recurring charges for Customized Code Restriction ("CCR") for each CCR feature purchased by New Phone on a residential telecommunications line at the time that the order shall be submitted via a BellSouth electronic ordering interface. In addition, for each bill period wherein New Phone maintains a minimum 35,000 residential telecommunications lines from BellSouth for the entire bill period, BellSouth will also offer a credit, equal to 100% of the monthly recurring charges for each CCR feature previously ordered by New Phone and in effect on New Phone's residential telecommunications lines for its imbedded customer base. Notwithstanding the foregoing, the credits described in this Section 4.5.5 shall be applicable only to residential telecommunications lines for which New Phone requires the end user to prepay for local exchange service. If at any time during the term of this Agreement New Phone purchases lines for resale on other than a prepaid basis, New Phone shall report to BellSouth those residential telecommunications lines that are and

Exhibit 1

are not to be resold on a prepaid basis. BellSouth shall have the right to audit New Phone's billing records no more frequently than four (4) times per year during the term of this Agreement to determine the number of lines for which New Phone requires its end users to prepay for service, the number of CCR features ordered for those lines, the proper application of the discount described above, and any other relevant information related solely to determining the amount of discounts applicable to New Phone hereunder. BellSouth shall use such information solely in connection with determining volume discounts pursuant to this Section and will maintain the confidentiality of all such information. New Phone shall make such records and data available to BellSouth or its designated auditors on a reasonable basis. BellSouth shall bear the cost of any such audit unless such audit reveals that New Phone has misreported by more than five percent (5%) the number of residential telecommunications lines for which New Phone requires prepayment by the end user, in which case New Phone shall bear the cost of such audit.

4.5.6 For each BellSouth bill period wherein New Phone maintains a minimum of 40,000 resold residential telecommunications lines from BellSouth for the entire bill period, BellSouth will offer a credit, equal to an additional discount of ten percent (10%) off the Restore charge per BellSouth residential telecommunications line resold to a New Phone end user; provided that such Restore order is submitted via a BellSouth electronic ordering interface. In addition, BellSouth will offer a credit equal to three percent (3%) of the monthly recurring charges paid by New Phone to BellSouth during such month for Inside Wire Maintenance Service Plans, MemoryCall® Answering Service, Residence/Personal Mailbox, and Transfer Mailbox associated with a New Phone residential telecommunications line sold to a New Phone end user.

4.5.6.1 In addition, if New Phone maintains a minimum of 40,000 resold residential telecommunications lines and 60,000 vertical features for each bill period, BellSouth will offer a credit equal to an additional discount of three percent (3%) of the monthly recurring charges during such month for vertical features associated with a New Phone residential telecommunications line; provided, however, that such credit shall not apply to any residential telecommunications lines for which the services listed in Exhibit G, Section 2 are ordered or in effect. For purposes of this paragraph, the only vertical features to be used in calculating the minimum 60,000 vertical features are those listed on Exhibit G, Section 1 hereto.

4.5.7 For each BellSouth bill period wherein New Phone maintains a minimum of 50,000 residential telecommunications lines from BellSouth for the entire bill period, BellSouth will offer a credit, equal to an additional discount of twenty percent (20%) off the Restore charge per BellSouth residential telecommunications line resold to a New Phone end user; provided that such Restore order is submitted via a BellSouth electronic ordering interface. In addition, BellSouth offer a credit equal to five percent (5%) of the monthly recurring charges paid by New Phone to BellSouth during such month for Inside Wire Maintenance Service Plans, MemoryCall® Answering Service, Residence/Personal Mailbox, and Transfer Mailbox associated with a New Phone residential telecommunications line sold to a New Phone end user.

4.5.7.1 In addition, if New Phone maintains a minimum of 50,000 resold residential telecommunications lines and 75,000 vertical features for each bill period, BellSouth will offer a credit equal to an additional discount of five percent (5%) of the monthly recurring charges during each month for vertical features associated with a New Phone residential telecommunications line; provided, however, that such credit shall not apply to any residential telecommunications lines for which the services listed in Exhibit G, Section 2 are ordered or in effect. For purposes of this paragraph, the only vertical features to be used in

calculating the minimum 75,000 vertical features are those listed on Exhibit G, Section 1 hereto.

- 4.5.8 For each Bellsouth bill period wherein New Phone maintains a minimum of 70,000 resold residential telecommunications lines from BellSouth for the entire bill period, BellSouth will offer a credit, equal to an additional discount of twenty-five percent (25%) off the Restore charge per BellSouth residential telecommunications line resold to a New Phone end user; provided that such Restore order is submitted via a BellSouth electronic ordering interface. In addition, BellSouth will offer a credit, equal to seven percent (7%) of the monthly recurring charges paid by New Phone to BellSouth during such month for Inside Wire Maintenance Service Plans, MemoryCall® Answering Service, Residence/Personal Mailbox, and Transfer Mailbox associated with a New Phone residential telecommunications line sold to a New Phone end user.
- 4.5.9 In addition, if New Phone maintains a minimum of 70,000 resold residential telecommunications lines and 105,000 vertical features for each bill period, BellSouth will offer a credit equal to an additional discount of seven percent (7%) of the monthly recurring charges during such month for vertical features associated with a New Phone residential telecommunications line; provided, however, that such credit shall not apply to any residential telecommunications lines for which the services listed in Exhibit G, Sections 2 are ordered or in effect. For purposes of this paragraph, the only vertical features to be used in calculating the minimum 105,000 vertical features are those listed on Exhibit G, Section 1 hereto.
- 4.5.10 Notwithstanding the terms of payment for Operational Support System ("OSS") charges set forth in Exhibit A hereto, commencing with the effective date of this Agreement, for each BellSouth monthly bill period wherein New Phone maintains a minimum of 35,000 residential telecommunications lines from BellSouth for the entire monthly billing period, BellSouth will offer tiered OSS rates based on monthly bill period electronic Local Service Request (LSR) volume levels as follows.

Volume Level Per Monthly Bill Period	OSS Rate
Tier 1 From 1 to 10,000 LSRs	\$3.50
Tier 2 From 10,001 to 15,000 LSRs	\$3.00
Tier 3 15,001 LSRs and greater	\$2.50

At the conclusion of a particular monthly bill period, the OSS Rate will revert to the Tier 1 rate of \$3.50.

All credits issued in this section shall be in arrears such that the applicable credits for a given billing cycle will be reflected on New Phone's bill on a quarterly basis and shall be in accordance with the terms described in Section 4.5.4.

- 4.5.11 At any time during the term of this Agreement, should New Phone fail to maintain the minimum 35,000 residential telecommunications lines required herein, fail to utilize a BellSouth electronic ordering interface for ordering services subject to this volume discount arrangement, or otherwise choose not to operate under the terms and conditions of this Section, New Phone will be assessed a termination charge equal to the year-to-date accumulated credits received times a termination factor. The termination factor will vary by year:

Contract Year	Termination Factor
----------------------	---------------------------

Year 1	100%
Year 2	50%
Year 3	0%

4.5.12 Upon expiration of this Agreement in accordance with the terms of Section 2 of the General Terms and Conditions of this Agreement, the discounts offered pursuant to this Section shall cease to apply, regardless of whether BellSouth continues to offer services to New Phone pursuant to the terms of this Agreement after expiration and while a new agreement is being negotiated.

4.5.13 The Parties agree that the terms of this Section 4.5 have been negotiated as a whole, each provision being interdependent with the others.

4.6 If New Phone cancels an order for resold services, any costs incurred by BellSouth in conjunction with provisioning of such order will be recovered in accordance with BellSouth's General Subscriber Services Tariffs and Private Line Services Tariffs.

5. Maintenance of Services

5.1 New Phone will adopt and adhere to the standards contained in the applicable CLEC Work Center Operational Understanding Agreement regarding maintenance and installation of service. Any conflict between the terms of the Operational Understanding Agreement and this Agreement shall be resolved in favor of this Agreement. Services resold under BellSouth's Tariffs and facilities and equipment provided by BellSouth shall be maintained by BellSouth.

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

5.3 New Phone accepts responsibility to notify BellSouth of situations that arise that may result in a service problem.

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

5.5 New Phone will contact the appropriate repair centers in accordance with procedures established by BellSouth.

5.6 For all repair requests, New Phone accepts responsibility for adhering to BellSouth's prescreening guidelines prior to referring the trouble to BellSouth.

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

5.8 BellSouth reserves the right to contact New Phone's end users, if deemed necessary, for maintenance purposes.

6. Establishment of Service

Exhibit 1

- 6.1 After receiving certification as a local exchange company from the appropriate regulatory agency, New Phone will provide the appropriate BellSouth service center the necessary documentation to enable BellSouth to establish a master account for New Phone's resold services. Such documentation shall include the Application for Master Account, proof of authority to provide telecommunications services, an Operating Company Number ("OCN") assigned by the National Exchange Carriers Association ("NECA") and a tax exemption certificate, if applicable. When necessary deposit requirements are met, BellSouth will begin taking orders for the resale of service.
- 6.2 Service orders will be in a standard format designated by BellSouth.
- 6.3 When notification is received from New Phone that a current end user of BellSouth will subscribe to New Phone's service, standard service order intervals for the appropriate class of service will apply.
- 6.4 BellSouth will not require end user confirmation prior to establishing service for New Phone's end user customer. New Phone must, however, be able to demonstrate end user authorization upon request.
- 6.5 New Phone will be the single point of contact with BellSouth for all subsequent ordering activity resulting in additions or changes to resold services except that BellSouth will accept a request directly from the end user for conversion of the end user's service from New Phone to BellSouth or will accept a request from another CLEC for conversion of the end user's service from New Phone to the other LEC. BellSouth will notify New Phone within 5 business days of the conversion that such a request has been processed.
- 6.6 If BellSouth determines that an unauthorized change in local service to New Phone has occurred, BellSouth, upon customer request, will reestablish service with the appropriate local service provider and will assess New Phone as the CLEC initiating the unauthorized change, the unauthorized change charge described in F.C.C. Tariff No. 1, Section 13 or applicable state tariff. Appropriate nonrecurring charges, as set forth in Section A4 of the General Subscriber Service Tariff, will also be assessed to New Phone. These charges will be adjusted to reflect a full credit if New Phone provides satisfactory proof of authorization. BellSouth will notify New Phone within five (5) business days that such a request has been processed.
- 6.7 In order to safeguard its interest, BellSouth reserves the right to secure the account with a reasonable and nondiscriminatory form of security deposit unless satisfactory credit has already been established.
 - 6.7.1 Such security deposit shall take the form of an irrevocable Letter of Credit or other forms of security acceptable to BellSouth. Any such security deposit may be held during the continuance of the service as security for the payment of any and all amounts accruing for the service.
 - 6.7.2 If a security deposit is required, such security deposit shall be made prior to the inauguration of service.
 - 6.7.3 Such security deposit may not exceed two months' estimated billing.
 - 6.7.4 The fact that a security deposit has been made in no way relieves New Phone from complying with BellSouth's regulations as to advance payments and the prompt payment of bills on presentation nor does it constitute a waiver or modification of the regular practices of BellSouth providing for the discontinuance of service for non-payment of any sums due BellSouth.

- 6.7.5 BellSouth reserves the right to increase the security deposit requirements when, in its reasonable judgment and on a nondiscriminatory basis, circumstances so warrant and/or gross monthly billing has increased beyond the level initially used to determine the security deposit.
- 6.7.6 In the event that New Phone defaults on its account, service to New Phone will be terminated and any security deposits held will be applied to its account.
- 6.7.7 Interest on a security deposit shall accrue and be paid in accordance with the terms in the appropriate BellSouth tariff.
- 6.8 Orders to switch services “as is” shall be treated as a change of service and shall *not* be treated as a disconnection and subsequent reconnection of service.
- 6.9 BellSouth shall provide New Phone notification of disconnects, updated and delivered once daily, via an electronic process known as OUTPLOC.

7. Payment And Billing Arrangements

- 7.1 To the extent New Phone has not already done so, prior to submitting orders to BellSouth for local service, a master account must be established for New Phone. New Phone is required to provide the following before a master account is established: proof of PSC/PUC certification, the Application for Master Account, an Operating Company Number (“OCN”) assigned by the National Exchange Carriers Association (“NECA”) and a tax exemption certificate, if applicable. BellSouth shall bill New Phone on a current basis all applicable charges and credits.
- 7.2 Payment of all charges will be the responsibility of New Phone. New Phone shall make payment to BellSouth for all services billed. BellSouth is not responsible for payments not received by New Phone from New Phone's end user. BellSouth will not become involved in billing disputes that may arise between New Phone and its end user, except as provided herein. Payments made to BellSouth as payment on account will be credited to an accounts receivable master account and not to an end user's account.
- 7.3 BellSouth will render bills each month on established bill days for each of New Phone's accounts
- 7.4 BellSouth will bill New Phone in advance charges for all services to be provided during the ensuing billing period except charges associated with service usage, which will be billed in arrears. Charges will be calculated on an individual end user account level, including, if applicable, any charge for usage or usage allowances. BellSouth will also bill New Phone, and New Phone will be responsible for and remit to BellSouth, all charges applicable to resold services including but not limited to 911 and E911 charges, telecommunications relay charges (TRS), and franchise fees
- 7.5 The payment will be due by the next bill date, (i.e., same date in the following month as the bill date) and is payable in immediately available funds. Payment is considered to have been made when received by BellSouth.
- 7.6 If the payment due date falls on a Sunday or on a Holiday which is observed on a Monday, the payment due date shall be the first non-Holiday day following such Sunday or Holiday. If the payment due date falls on a Saturday or on a Holiday which is observed on Tuesday, Wednesday, Thursday, or Friday, the payment due date shall be the last non-Holiday day preceding such Saturday or Holiday. If payment is not received by the payment due date, a late payment penalty, as set forth in section 7.8 following, shall apply.

- 7.6.1 If New Phone requests multiple billing media or additional copies of bills, BellSouth will provide these at an appropriate charge to New Phone.
- 7.7 Billing Disputes
- 7.7.1 Each Party agrees to notify the other Party upon the discovery of a billing dispute. In the event of a billing dispute, the Parties will endeavor to resolve the dispute within sixty (60) calendar days of the Bill Date on which such disputed charges appear, provided however that failure to raise a billing dispute within 60 days of the bill date shall not operate to waive such dispute. Resolution of the dispute is expected to occur at the first level of management resulting in a recommendation for settlement of the dispute and closure of a specific billing period. If the issues are not resolved within the allotted time frame, the following resolution procedure will begin:
- 7.7.2 If the dispute is not resolved within sixty (60) days of the Bill Date, the dispute will be escalated to the second level of management for each of the respective Parties for resolution.
- 7.7.3 If the dispute is not resolved within ninety (90) days of the Bill Date, the dispute will be escalated to the third level of management for each of the respective Parties for resolution.
- 7.7.4 If the dispute is not resolved within one hundred and twenty (120) days of the Bill Date, or within such other time as the parties may agree, either Party may file a complaint with the Commission or with a court of competent jurisdiction. The parties will comply with decisions of the court of Commission, subject to the appropriate rights to appeal.
- 7.7.5 If a Party disputes a charge and does not pay such charge by the payment due date, such charges shall be subject to late payment charges as set forth in the Late Payment Charges provision of this Attachment. If a Party disputes a charge and does pay such charge by the payment due date, that Party will be entitled to a credit with interest if the dispute is resolved in favor of that Party. If a Party disputes charges and the dispute is resolved in favor of such Party, the other Party shall credit the bill of the disputing Party for the amount of the disputed charges along with any late payment charges assessed no later than the second Bill Date after the resolution of the dispute. Accordingly, if a Party disputes charges and the dispute is resolved in favor of the other Party, the disputing Party shall pay the other Party the amount of the disputed charges and any associated late payment charges assessed no later than the second bill payment due date after the resolution of the dispute. BellSouth shall only assess interest on previously assessed late payment charges in a state where it has authority pursuant to its tariffs.
- 7.8 Upon proof of tax exempt certification from New Phone, the total amount billed to New Phone will not include any taxes due from the end user to reflect the tax exempt certification and local tax laws. New Phone will be solely responsible for the computation, tracking, reporting, and payment of taxes applicable to New Phone's end user.
- 7.9 If any portion of the payment is received by BellSouth after the payment due date as set forth preceding, or if any portion of the payment is received by BellSouth in funds that are not immediately available to BellSouth, then a late payment penalty shall be due to BellSouth. The late payment penalty shall be the portion of the payment not received by the payment due date times a late factor and will be applied on a per bill basis. The late factor shall be as set forth in Section A2 of the General Subscriber Services Tariff and Section B2 of the Private Line Service Tariff.

- 7.10 Any switched access charges associated with interexchange carrier access to the resold local exchange lines will be billed by, and due to, BellSouth. No additional charges are to be assessed to New Phone.
- 7.11 BellSouth will not perform billing and collection services for New Phone as a result of the execution of this Agreement. All requests for billing services should be referred to the appropriate entity or operational group within BellSouth.
- 7.12 Pursuant to 47 CFR Section 51.617, BellSouth will bill New Phone end user common line charges identical to the end user common line charges BellSouth bills its end users.
- 7.13 In general, BellSouth will not become involved in disputes between New Phone and New Phone's end user customers over resold services. If a dispute does arise that cannot be settled without the involvement of BellSouth, New Phone shall contact the designated Service Center for resolution. BellSouth will make every effort to assist in the resolution of the dispute and will work with New Phone to resolve the matter in as timely a manner as possible. New Phone may be required to submit documentation to substantiate the claim.

8. Discontinuance of Service

- 8.1 The procedures for discontinuing service to an End User are as follows:
 - 8.1.1 Where possible, BellSouth will deny service to New Phone's End User on behalf of, and at the request of, New Phone. Upon restoration of the End User's service, restoral charges will apply and will be the responsibility of New Phone.
 - 8.1.2 At the request of New Phone, BellSouth will disconnect a New Phone End User customer.
 - 8.1.3 All requests by New Phone for denial or disconnection of an End User for nonpayment must be in writing.
 - 8.1.4 New Phone will be made solely responsible for notifying the End User of the proposed disconnection of the service.
 - 8.1.5 BellSouth will continue to process calls made to the Annoyance Call Center and will advise New Phone when it is determined that annoyance calls are originated from one of its End User's locations. BellSouth shall be indemnified, defended and held harmless by New Phone and/or the End User against any claim, loss or damage arising from providing this information to New Phone. It is the responsibility of New Phone to take the corrective action necessary with its End Users who make annoying calls. Failure to do so will result in BellSouth's disconnecting the End User's service.
 - 8.1.6 BellSouth may disconnect and reuse facilities when the facility is in a denied state and BellSouth has received an order to establish new service or transfer of service from an End User or an End User's CLEC at the same address served by the denied facility.
 - 8.1.7 At the request of either Party, the other Party shall disconnect facilities at an abandoned station. The criteria for determining an abandoned station must be met. This will not be the same customer at the same location.
- 8.2 The procedures for discontinuing service to New Phone are as follows:
 - 8.2.1 BellSouth reserves the right to suspend or terminate service. BellSouth will provide notice and an opportunity to cure, not to exceed five business days, in the event of

prohibited, unlawful or improper use of the facilities or service, abuse of the facilities, or any other violation or noncompliance by New Phone of the rules and regulations of BellSouth's Tariffs

- 8.2.2 BellSouth reserves the right to suspend or terminate service for nonpayment. If payment of account is not received by the bill day in the month after the original bill day, BellSouth may provide written notice to New Phone that additional applications for service will be refused and that any pending orders for service will not be completed if payment is not received by the fifteenth day following the date of the notice. In addition, BellSouth may, at the same time, give thirty days notice to the person designated by New Phone to receive notices of noncompliance, and discontinue the provision of existing services to New Phone at any time thereafter.
- 8.2.3 In the case of such discontinuance, all billed charges, as well as applicable termination charges, shall become due.
- 8.2.4 If BellSouth does not discontinue the provision of the services involved on the date specified in the thirty days notice and New Phone's noncompliance continues, nothing contained herein shall preclude BellSouth's right to discontinue the provision of the services to New Phone without further notice.
- 8.2.5 If payment is not received or arrangements made for payment by the date given in the written notification, New Phone's services will be discontinued. Upon discontinuance of service on a New Phone's account, service to New Phone's end users will be denied. BellSouth will also reestablish service at the request of the end user or New Phone upon payment of the appropriate connection fee and subject to BellSouth's normal application procedures. New Phone is solely responsible for notifying the end user of the proposed disconnection of the service.
- 8.2.6 If within fifteen days after an end user's service has been denied no contact has been made in reference to restoring service, the end user's service will be disconnected.

9. Resale of Customer Specific Arrangements

- 9.1 CSAs shall be available for resale at the wholesale discount set forth in Exhibit F of this Attachment; provided, however, that in the event the Commission establishes a specific discount for CSAs such discount shall apply thereafter. New Phone may resell a CSA to the end user for whom the CSA was constructed or to end users similarly situated to the specific end user for whom the CSA was constructed. Customers shall be deemed to be similarly situated when the quantity of use; time of use; manner of service; and costs of rendering the service are the same. In cases where New Phone resells an existing CSA, no termination or rollover charges shall apply to the assignment of the CSA to New Phone provided that New Phone assumes the obligations set forth within the CSA. Notwithstanding the foregoing, BellSouth may impose a single service order charge (not to exceed the level of tariffed service order charges for comparable services) to recover the cost of changing the billing name on the account.

10. Line Information Database (LIDB)

- 10.1 BellSouth will store in its Line Information Database (LIDB) records relating to service only in the BellSouth region. The LIDB Storage Agreement is included in this Attachment as Exhibit B.
- 10.2 BellSouth will provide LIDB Storage upon written request to New Phone Account Manager stating requested activation date.

11. RAO Hosting

Exhibit 1

- 11.1 The RAO Hosting Agreement is included in this Attachment as Exhibit C. Rates for BellSouth's Centralized Message Distribution System (CMDMS) are as set forth in Exhibit F of this Attachment.
- 11.2 BellSouth will provide RAO Hosting upon written request to its Account Manager stating requested activation date.
12. **Optional Daily Usage File (ODUF)**
 - 12.1 The Optional Daily Usage File (ODUF) Agreement with terms and conditions is included in this Attachment as Exhibit D. Rates for ODUF are as set forth in Exhibit F of this Attachment.
 - 12.2 BellSouth will provide Optional Daily Usage File (ODUF) service upon written request to its Account Manager stating requested activation date.
13. **Enhanced Optional Daily Usage File (EODUF)**
 - 13.1 The Enhanced Optional Daily Usage File (EODUF) service Agreement with terms and conditions is included in this Attachment as Exhibit E. Rates for EODUF are as set forth in Exhibit F of this Attachment.
 - 13.2 BellSouth will provide Enhanced Optional Daily Usage File (EODUF) service upon written request to its Account Manager stating requested activation date.
14. **Branding For Resellers**
 - 14.1 Selective Call Routing using Line Class Codes (SCR-LCC) provides the capability for New Phone to have its OS/DA calls routed to BellSouth's OS/DA platform for BellSouth provided Custom Branded or Unbranded OS/DA or to its own or an alternate OS/DA platform for Self-Branded OS/DA. SCR-LCC is only available if line class code capacity is available in the requested BellSouth end office switches.
 - 14.2 Custom Branding for Directory Assistance is not available for certain classes of service, including but not limited to Hotel/Motel services, WATS service, and certain PBX services.
 - 14.3 Where available, New Phone specific and unique line class codes are programmed in each BellSouth end office switch where New Phone intends to serve end users with customized OS/DA branding. The line class codes specifically identify New Phone's end users so OS/DA calls can be routed over the appropriate trunk group to the requested OS/DA platform. Additional line class codes are required in each end office if the end office serves multiple NPAs (i.e., a unique LCC is required per NPA), and/or if the end office switch serves multiple rate areas and New Phone intends to provide New Phone -branded OS/DA to its end users in these multiple rate areas.

- 14.4 BellSouth Branding is the Default Service Level.
- 14.5 SCR-LCC supporting Custom Branding and Self Branding require New Phone to order dedicated trunking from each BellSouth end office identified by New Phone, either to the BellSouth Traffic Operator Position System (TOPS) for Custom Branding or to the New Phone Operator Service Provider for Self Branding. Separate trunk groups are required for Operator Services and for Directory Assistance. Rates for trunks are set forth in applicable BellSouth tariffs.
- 14.6 Unbranding - Unbranded Directory Assistance and/or Operator Call Processing calls ride common trunk groups provisioned by BellSouth from those end offices identified by New Phone to the BellSouth TOPS. These calls are routed to "No Announcement."
- 14.7 The Rates for SCR-LCC are as set forth in this Attachment. There is a nonrecurring charge for the establishment of each Line Class Code in each BellSouth central office. Furthermore, for Unbranded and Custom Branded OS/DA provided by BellSouth Operator Services with unbundled ports and unbundled port/loop switch combinations, monthly recurring usage charges shall apply for the UNEs necessary to provide the service, such as end office and tandem switching and common transport. A flat rated end office switching charge shall apply to Self-Branded OS/DA when used in conjunction with unbundled ports and unbundled port/loop switch combinations.
- 14.8 In addition to the branding methods described in this Section, Unbranding and Custom Branding are also available for Directory Assistance, Operator Call Processing or both via Originating Line Number Screening (OLNS) software. When utilizing this method of Unbranding or Custom Branding, New Phone shall not be required to purchase dedicated trunking.
- 14.9 For BellSouth to provide Unbranding or Custom Branding via OLNS software for Operator Call Processing or for Directory Assistance, New Phone must have its Operating Company Number ("OCN(s)") and telephone numbers reside in BellSouth's LIDB; however, a BellSouth LIDB Storage Agreement is not required. To implement Unbranding and Custom Branding via OLNS software, New Phone must submit a manual order form which requires, among other things, New Phone's OCN and a forecast for the traffic volume anticipated for each BellSouth TOPS during the peak busy hour. New Phone shall provide updates to such forecast on a quarterly basis and at any time such forecasted traffic volumes are expected to change significantly. Upon New Phone's purchase of Unbranding or Custom Branding using OLNS software for any particular TOPS, all New Phone end users served by that TOPS will receive the Unbranded "no announcement" or the Custom Branded announcement.
- 14.10 Rates for Unbranding and Custom Branding via OLNS software for Directory Assistance and for Operator Call Processing are as set forth in this Attachment. Notwithstanding anything to the contrary in this Agreement, to the extent BellSouth is unable to bill New Phone applicable charges currently, BellSouth shall track such charges and will bill the same retroactively at such time as a billing process is implemented. In addition to the charges for Unbranding and Custom Branding via OLNS software, New Phone shall continue to pay BellSouth applicable labor and other charges for the use of BellSouth's Directory Assistance and Operator Call Processing platforms as set forth in this Attachment. Further, where New Phone is purchasing unbundled local switching from BellSouth, UNE usage charges for end office switching, tandem switching and transport, as applicable, shall continue to apply.

**EXCLUSIONS AND LIMITATIONS
ON SERVICES AVAILABLE FOR RESALE**

	Type of Service	AL		FL		GA		KY		LA	
		Resale?	Discount?	Resale?	Discount?	Resale?	Discount?	Resale?	Discount?	Resale?	Discount?
1	Grandfathered Services (Note 1)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	Promotions - > 90 Days(Note 2)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	Promotions - < 90 Days (Note 2)	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
4	Lifeline/Link Up Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Note 4	Yes	Yes
5	911/E911 Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
6	N11 Services	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No
8	MemoryCall® Service	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
9	Mobile Services	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
10	Federal Subscriber Line Charges	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
11	Non-Recurring Charges	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	End User Line Charge – Number Portability	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
13	Public Telephone Access Svc (PTAS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	Inside Wire Maint Service Plan	Yes	No	Yes	No	Yes	No	Yes	No	Yes	No

	Type of Service	MS		NC		SC		TN	
		Resale?	Discount?	Resale?	Discount?	Resale?	Discount?	Resale?	Discount?
1	Grandfathered Services (Note 1)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	Promotions - > 90 Days(Note 2)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Note 3
3	Promotions - < 90 Days (Note 2)	Yes	No	Yes	No	Yes	No	Yes	No
4	Lifeline/Link Up Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Note 4
5	911/E911 Services	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	N11 Services	Yes	Yes	Yes	Yes	No	No	Yes	Yes
8	MemoryCall® Service	Yes	No	Yes	No	Yes	No	Yes	No
9	Mobile Services	Yes	No	Yes	No	Yes	No	Yes	No
10	Federal Subscriber Line Charges	Yes	No	Yes	No	Yes	No	Yes	No
11	Non-Recurring Charges	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
12	End User Line Charge – Number Portability	Yes	No	Yes	No	Yes	No	Yes	No
13	Public Telephone Access Svc (PTAS)	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
14	Inside Wire Maint Service Plan	Yes	No	Yes	No	Yes	No	Yes	No

Applicable Notes:

- 1 **Grandfathered services** can be resold only to existing subscribers of the grandfathered service.
- 2 Where available for resale, **promotions** will be made available only to end users who would have qualified for the promotion had it been provided by BellSouth directly.
- 3 In Tennessee, long-term promotions (offered for more than ninety (90) days) may be obtained at one of the following rates:
 - (a) the stated tariff rate, less the wholesale discount;
 - (b) the promotional rate (the promotional rate offered by BellSouth will not be discounted further by the wholesale discount rate)

- 4 **Lifeline/Link Up** services may be offered only to those subscribers who meet the criteria that BellSouth currently applies to subscribers of these services as set forth in Section A3 and A4 of the BellSouth General Subscriber Services Tariff.
- 5 Some of BellSouth's local exchange and toll telecommunications services are not available in certain central offices and areas.

EXHIBIT B

**LINE INFORMATION DATA BASE (LIDB)
STORAGE AGREEMENT**

I. SCOPE

A. This Agreement sets forth the terms and conditions pursuant to which BST agrees to store in its LIDB certain information at the request of the Local Exchange Company and pursuant to which BST, its LIDB customers and Local Exchange Carrier shall have access to such information. Local Exchange Carrier understands that BST 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 Local Exchange Carrier, 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. BST 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 BST's LIDB, provided that such information is included in the LIDB query. BST will establish fraud alert thresholds and will notify the Local Exchange Company of fraud alerts so that the Local Exchange Company may take action it deems appropriate. Local Exchange Company understands and agrees BST will administer all data stored in the LIDB, including the data provided by Local Exchange Company pursuant to this Agreement, in the same manner as BST's data for BST's end user customers. BST will suspend or restore individual LIDB accounts of New Phone customers as instructed by New Phone. BST shall not be responsible to Local Exchange Company for any lost revenue which may result from BST's administration of the LIDB pursuant to its established practices and procedures as they exist and as they may be changed by BST in its sole discretion from time to time.

Local Exchange Company understands that BST currently has in effect numerous billing and collection

EXHIBIT B

agreements with various interexchange carriers and billing clearing houses. Local Exchange Company further understands that these billing and collection customers of BST query BST's LIDB to determine whether to accept various billing options from end users. Additionally, Local Exchange Company understands that presently BST has no method to differentiate between BST's own billing and line data in the LIDB and such data which it includes in the LIDB on Local Exchange Company's behalf pursuant to this Agreement. Therefore, until such time as BST can and does implement in its LIDB and its supporting systems the means to differentiate Local Exchange Company's data from BST's data and the parties to this Agreement execute appropriate amendments hereto, the following terms and conditions shall apply:

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

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

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

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

II. TERM

This Agreement will be effective as of June 19, 2002, and will continue in effect for one year, and thereafter

EXHIBIT B

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. The Local Exchange Company will not be charged a fee for storage services provided by BST to the Local Exchange Company, as described in Section I of this Agreement.

B. Sales, use and all other taxes (excluding taxes on BST's income) determined by BST 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 the Local Exchange Company. The Local Exchange Company shall have the right to have BST contest with the imposing jurisdiction, at the Local Exchange Company's expense, any such taxes that the Local Exchange Company 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

In the absence of gross negligence or willful misconduct, 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

EXHIBIT B

damage

VI. MISCELLANEOUS

A. It is understood and agreed to by the parties that BST 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. The Local Exchange Company agrees to submit to BST all advertising, sales promotion, press releases, and other publicity matters relating to this Agreement wherein BST's corporate or trade names, logos, trademarks or service marks or those of BST's affiliated companies are mentioned or language from which the connection of said names or trademarks therewith may be inferred or implied; and the Local Exchange Company further agrees not to publish or use advertising, sales promotions, press releases, or publicity matters without BST's prior written approval.

D. This Agreement constitutes the entire agreement between the Local Exchange Company and BST 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.

EXHIBIT B

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

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

This is a Resale Addendum to the Line Information Data Base Storage Agreement dated June 19, 2002, between BellSouth Telecommunications, Inc. ("BST"), and Local Exchange Company ("Local Exchange Company"), effective the 19th day of June, 2002.

I. GENERAL

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

II. DEFINITIONS

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

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

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

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

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

EXHIBIT B

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

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

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

I. Billing number information – information about billing number or Calling Card number as assigned by BST and toll billing exception indicator provided to BST by the Local Exchange Company.

III. RESPONSIBILITIES OF PARTIES

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

B. Under normal operating conditions, BST shall include the billing number information in its LIDB upon completion of the service order establishing either the resold local exchange service or the SPNP arrangement, provided that BST 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 BST's reasonable control. BST will store in its LIDB an unlimited volume of the working telephone numbers associated with either the resold local exchange lines or the SPNP arrangements. For resold local exchange lines or for SPNP arrangements, BST will issue line-based calling cards only in the name of Local Exchange Company. BST will not issue line-based calling cards in the name of Local Exchange Company's individual end users. In the event that Local Exchange Company wants to include calling card numbers assigned by the Local Exchange Company in the BST LIDB, a separate agreement is required.

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

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

EXHIBIT B

1. Validate a 14 digit Calling Card number where the first 10 digits are a line number or special billing number assigned by BST, and where the last four digits (PIN) are a security code assigned by BST.
2. Determine whether the Local Exchange Company has identified the billing number as one which should not be billed for collect or third number calls, or both.

EXHIBIT C

CMDS/RAO Hosting

- 1 RAO Hosting, Calling Card and Third Number Settlement System (CATS) and Non-Intercompany Settlement System (NICS) services provided to New Phone by BellSouth will be in accordance with the methods and practices conforming to accepted industry standards during the term of this Agreement, including such revisions as may be made from time to time by BellSouth and agreed to by New Phone.
2. To the extent not already provided, New Phone shall furnish all relevant information required by BellSouth for the provision of RAO Hosting, CATS and NICS.
3. Applicable compensation amounts will be billed by BellSouth to New Phone on a monthly basis in arrears. Amounts due from one Party to the other (excluding adjustments) are payable within thirty (30) days of receipt of the billing statement
- 4 New Phone must have its own unique RAO code. Requests for establishment of RAO status where BellSouth is the selected Centralized Message Distribution System (CMDS) interfacing host, require written notification from New Phone to the BellSouth RAO Hosting coordinator at least eight (8) weeks prior to the proposed effective date. The proposed effective date will be mutually agreed upon between the Parties with consideration given to time necessary for the completion of required Telcordia (formerly BellCore) functions. BellSouth will request the assignment of an RAO code from its connecting contractor, currently Telcordia (formerly BellCore), on behalf of New Phone and will coordinate all associated conversion activities.
- 5 BellSouth will receive messages from New Phone that are to be processed by BellSouth, another LEC or CLEC in the BellSouth region or a LEC outside the BellSouth region.
- 6 BellSouth will perform invoice sequence checking, standard EMI format editing, and balancing of message data with the EMI trailer record counts on all data received from New Phone.
- 7 All data received from New Phone that is to be processed or billed by another LEC or CLEC within the BellSouth region will be distributed to that LEC or CLEC in accordance with the agreement(s) which may be in effect between BellSouth and the involved LEC or CLEC.
- 8 All data received from New Phone that is to be placed on the CMDS network for distribution outside the BellSouth region will be handled in accordance with the agreement(s) which may be in effect between BellSouth and its connecting contractor (currently Telcordia (formerly BellCore)).
- 9 BellSouth will receive messages from the CMDS network that are destined to be processed by New Phone and will forward them to New Phone on a daily basis.
- 10 Transmission of message data between BellSouth and New Phone will be via CONNECT:Direct.
- 11 All messages and related data exchanged between BellSouth and New Phone will be formatted in accordance with accepted industry standards for EMI formatted records and packed between appropriate EMI header and trailer records, also in accordance with accepted industry standards.
- 12 New Phone will ensure that the recorded message detail necessary to recreate files provided to BellSouth will be maintained for back-up purposes for a period of three (3) calendar months beyond the related message dates.

EXHIBIT C

- 13 Should it become necessary for New Phone to send data to BellSouth more than sixty (60) days past the message date(s), New Phone will notify BellSouth in advance of the transmission of the data. If there will be impacts outside the BellSouth region, BellSouth will work with its connecting contractor and New Phone to notify all affected Parties.
- 14 In the event that data to be exchanged between the two Parties should become lost or destroyed, both Parties will work together to determine the source of the problem. Once the cause of the problem has been jointly determined and the responsible Party (BellSouth or New Phone) identified and agreed to, the company responsible for creating the data (BellSouth or New Phone) will make every effort to have the affected data restored and retransmitted. If the data cannot be retrieved, the responsible Party will be liable to the other Party for any resulting lost revenue. Lost revenue may be a combination of revenues that could not be billed to the end users and associated access revenues. Both Parties will work together to estimate the revenue amount based upon historical data through a method mutually agreed upon. The resulting estimated revenue loss will be paid by the responsible Party to the other Party within three (3) calendar months of the date of problem resolution, or as mutually agreed upon by the Parties.
- 15 Should an error be detected by the EMI format edits performed by BellSouth on data received from New Phone, the entire pack containing the affected data will not be processed by BellSouth. BellSouth will notify New Phone of the error condition. New Phone will correct the error(s) and will resend the entire pack to BellSouth for processing. In the event that an out-of-sequence condition occurs on subsequent packs, New Phone will resend these packs to BellSouth after the pack containing the error has been successfully reprocessed by BellSouth.
- 16 In association with message distribution service, BellSouth will provide New Phone with associated intercompany settlements reports (CATS and NICS) as appropriate.
- 17 In no case shall either Party be liable to the other for any direct or consequential damages incurred as a result of the obligations set out in this agreement.
- 18 RAO Compensation
- 18.1 Rates for message distribution service provided by BellSouth for New Phone are as set forth in Exhibit A to this Attachment.
- 18.2 Rates for data transmission associated with message distribution service are as set forth in Exhibit A to this Attachment.
- 18.3 Data circuits (private line or dial-up) will be required between BellSouth and New Phone for the purpose of data transmission. Where a dedicated line is required, New Phone will be responsible for ordering the circuit, overseeing its installation and coordinating the installation with BellSouth. New Phone will also be responsible for any charges associated with this line. Equipment required on the BellSouth end to attach the line to the mainframe computer and to transmit successfully ongoing will be negotiated on a case by case basis. Where a dial-up facility is required, dial circuits will be installed in the BellSouth data center by BellSouth and the associated charges assessed to New Phone. Additionally, all message toll charges associated with the use of the dial circuit by New Phone will be the responsibility of New Phone. Associated equipment on the BellSouth end, including a modem, will be negotiated on a case by case basis between the Parties.
- 18.4 All equipment, including modems and software, that is required on the New Phone end for the purpose of data transmission will be the responsibility of New Phone.

EXHIBIT C

19 Intercompany Settlements Messages

- 19.1 This Section addresses the settlement of revenues associated with traffic originated from or billed by New Phone as a facilities based provider of local exchange telecommunications services outside the BellSouth region. Only traffic that originates in one Bell operating territory and bills in another Bell operating territory is included. Traffic that originates and bills within the same Bell operating territory will be settled on a local basis between New Phone and the involved company(ies), unless that company is participating in NICS.
- 19.2 Both traffic that originates outside the BellSouth region by New Phone and is billed within the BellSouth region, and traffic that originates within the BellSouth region and is billed outside the BellSouth region by New Phone, is covered by this Agreement (CATS). Also covered is traffic that either is originated by or billed by New Phone, involves a company other than New Phone, qualifies for inclusion in the CATS settlement, and is not originated or billed within the BellSouth region (NICS).
- 19.3 Once New Phone is operating within the BellSouth territory, revenues associated with calls originated and billed within the BellSouth region will be settled via Telcordia (formerly BellCore)'s, its successor or assign, NICS system.
- 19.4 BellSouth will receive the monthly NICS reports from Telcordia (formerly BellCore), its successor or assign, on behalf of New Phone. BellSouth will distribute copies of these reports to New Phone on a monthly basis.
- 19.5 BellSouth will receive the monthly Calling Card and Third Number Settlement System (CATS) reports from Telcordia (formerly BellCore), its successor or assign, on behalf of New Phone. BellSouth will distribute copies of these reports to New Phone on a monthly basis.
- 19.6 BellSouth will collect the revenue earned by New Phone from the Bell operating company in whose territory the messages are billed (CATS), less a per message billing and collection fee of five cents (\$0.05), on behalf of New Phone. BellSouth will remit the revenue billed by New Phone to the Bell operating company in whose territory the messages originated, less a per message billing and collection fee of five cents (\$0.05), on behalf on New Phone. These two amounts will be netted together by BellSouth and the resulting charge or credit issued to New Phone via a monthly Carrier Access Billing System (CABS) miscellaneous bill.
- 19.7 BellSouth will collect the revenue earned by New Phone within the BellSouth territory from another CLEC also within the BellSouth territory (NICS) where the messages are billed, less a per message billing and collection fee of five cents (\$0.05), on behalf of New Phone. BellSouth will remit the revenue billed by New Phone within the BellSouth region to the CLEC also within the BellSouth region, where the messages originated, less a per message billing and collection fee of five cents (\$0.05). These two amounts will be netted together by BellSouth and the resulting charge or credit issued to New Phone via a monthly Carrier Access Billing System (CABS) miscellaneous bill.

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

EXHIBIT D

Optional Daily Usage File (ODUF)

- 1 Upon written request from New Phone, BellSouth will provide the Optional Daily Usage File (ODUF) service to New Phone pursuant to the terms and conditions currently in place between BellSouth and New Phone.
- 2 New Phone shall furnish, to the extent not already furnished, the following information required by BellSouth for the provision of the Optional Daily Usage File:
 - 3 The Optional Daily Usage Feed will contain billable messages that were carried over the BellSouth Network and processed in the BellSouth Billing System, but billed to a New Phone customer.

Charges for delivery of the Optional Daily Usage File will appear on the New Phone's monthly bills. The charges are as set forth in Exhibit A to this Attachment.
 - 4 The Optional Daily Usage Feed will contain both rated and unrated messages. All messages will be in the standard Alliance for Telecommunications Industry Solutions (ATIS) EMI record format.
 - 5 Messages that error in the billing system of the New Phone will be the responsibility of the New Phone. If, however, the New Phone should encounter significant volumes of errored messages that prevent processing by the New Phone within its systems, BellSouth will work with the New Phone to determine the source of the errors and the appropriate resolution.
 6. The following specifications shall apply to the Optional Daily Usage Feed.
 - 6.1 Usage To Be Transmitted
 - 6.1.1 The following messages recorded by BellSouth will be transmitted to New Phone:
 - message recording for per use/per activation type services (examples: Three Way Calling, Verify, Interrupt, Call Return, ETC.)
 - measured billable Local
 - Directory Assistance messages
 - intraLATA Toll
 - WATS & 8XX Service
 - N11
 - Information Service Provider Messages
 - Operator Services Messages
 - Operator Services Message Attempted Calls (UNE only)
 - Credit/Cancel Records
 - Usage for Voice Mail Message Service
 - 9XX Service

EXHIBIT D

- 6.1.2 Rated Incollects (originated in BellSouth and from other companies) can also be on Optional Daily Usage File. Rated Incollects will be intermingled with BellSouth recorded rated and unrated usage. Rated Incollects will not be packed separately.
- 6.1.3 BellSouth will perform duplicate record checks on records processed to Optional Daily Usage File. Any duplicate messages detected will be deleted and not sent to New Phone.
- 6.1.4 In the event that New Phone detects a duplicate on Optional Daily Usage File they receive from BellSouth, New Phone will drop the duplicate message (New Phone will not return the duplicate to BellSouth).
- 6.2 Physical File Characteristics
 - 6.2.1 The Optional Daily Usage File will be distributed to New Phone via an agreed medium with CONNECT:Direct being the preferred transport method. The Daily Usage Feed will be a variable block format (2476) with an LRECL of 2472. The data on the Daily Usage Feed will be in a non-compacted EMI format (175 byte format plus modules). It will be created on a daily basis (Monday through Friday except holidays). Details such as dataset name and delivery schedule will be addressed during negotiations of the distribution medium. There will be a maximum of one dataset per workday per OCN.
 - 6.2.2 Data circuits (private line or dial-up) may be required between BellSouth and New Phone for the purpose of data transmission. Where a dedicated line is required, New Phone will be responsible for ordering the circuit, overseeing its installation and coordinating the installation with BellSouth. New Phone will also be responsible for any charges associated with this line. Equipment required on the BellSouth end to attach the line to the mainframe computer and to transmit successfully ongoing will be negotiated on a case by case basis. Where a dial-up facility is required, dial circuits will be installed in the BellSouth data center by BellSouth and the associated charges assessed to New Phone. Additionally, all message toll charges associated with the use of the dial circuit by New Phone will be the responsibility of New Phone. Associated equipment on the BellSouth end, including a modem, will be negotiated on a case by case basis between the parties. All equipment, including modems and software, that is required on New Phone end for the purpose of data transmission will be the responsibility of New Phone.
- 6.3 Packing Specifications
 - 6.3.1 A pack will contain a minimum of one message record or a maximum of 99,999 message records plus a pack header record and a pack trailer record. One transmission can contain a maximum of 99 packs and a minimum of one pack.
 - 6.3.2 The OCN, From RAO, and Invoice Number will control the invoice sequencing. The From RAO will be used to identify to New Phone which BellSouth RAO that is sending the message. BellSouth and New Phone will use the invoice sequencing to control data exchange. BellSouth will be notified of sequence failures identified by New Phone and resend the data as appropriate.

THE DATA WILL BE PACKED USING ATIS EMI RECORDS.

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

EXHIBIT D

6.5 Control Data

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

6.6 Testing

- 6.6.1 Upon request from New Phone, BellSouth shall send test files to New Phone for the Optional Daily Usage File. The parties agree to review and discuss the file's content and/or format. For testing of usage results, BellSouth shall request that New Phone set up a production (LIVE) file. The live test may consist of New Phone's employees making test calls for the types of services New Phone requests on the Optional Daily Usage File. These test calls are logged by New Phone, and the logs are provided to BellSouth. These logs will be used to verify the files. Testing will be completed within 30 calendar days from the date on which the initial test file was sent. New Phone shall not be required to repeat testing completed during the deployment of its facilities and electronic interfaces.

EXHIBIT E

Enhanced Optional Daily Usage File (EODUF)

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

2 To the extent not already provided, New Phone shall furnish all relevant information required by BellSouth for the provision of the Enhanced Optional Daily Usage File³. The Enhanced Optional Daily Usage File (EODUF) will provide usage data for local calls originating from resold Flat Rate Business and Residential Lines.

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

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

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

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

6.1 Usage To Be Transmitted

6.1.1 The following messages recorded by BellSouth will be transmitted to New Phone:

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

Date of Call
From Number
To Number
Connect Time
Conversation Time
Method of Recording
From RAO
Rate Class
Message Type
Billing Indicators
Bill to Number

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

6.1.3 In the event that New Phone detects a duplicate on Enhanced Optional Daily Usage File that it receives from BellSouth, New Phone will drop the duplicate message (New Phone will not return the duplicate to BellSouth).

6.2 Physical File Characteristics

EXHIBIT E

- 6.2.1 The Enhanced Optional Daily Usage Feed will be distributed to New Phone over their existing Optional Daily Usage File (ODUF) feed. The EODUF messages will be intermingled among New Phone's Optional Daily Usage File (ODUF) messages. The EODUF will be a variable block format (2476) with an LRECL of 2472. The data on the EODUF will be in a non-compacted EMI format (175 byte format plus modules). It will be created on a daily basis (Monday through Friday except holidays).
- 6.2.2 Data circuits (private line or dial-up) may be required between BellSouth and New Phone for the purpose of data transmission. Where a dedicated line is required, New Phone will be responsible for ordering the circuit, overseeing its installation and coordinating the installation with BellSouth. New Phone will also be responsible for any charges associated with this line. Equipment required on the BellSouth end to attach the line to the mainframe computer and to transmit successfully ongoing will be negotiated on a case by case basis. Where a dial-up facility is required, dial circuits will be installed in the BellSouth data center by BellSouth and the associated charges assessed to New Phone. Additionally, all message toll charges associated with the use of the dial circuit by New Phone will be the responsibility of New Phone. Associated equipment on the BellSouth end, including a modem, will be negotiated on a case by case basis between the parties. All equipment, including modems and software, that is required on New Phone end for the purpose of data transmission will be the responsibility of New Phone.
- 6.3 Packing Specifications
- 6.3.1 A pack will contain a minimum of one message record or a maximum of 99,999 message records plus a pack header record and a pack trailer record. One transmission can contain a maximum of 99 packs and a minimum of one pack.
- 6.3.2 The Operating Company Number (OCN), From Revenue Accounting Office (RAO), and Invoice Number will control the invoice sequencing. The From RAO will be used to identify to New Phone which BellSouth RAO that is sending the message. BellSouth and New Phone will use the invoice sequencing to control data exchange. BellSouth will be notified of sequence failures identified by New Phone and resend the data as appropriate.

THE DATA WILL BE PACKED USING ATIS EMI RECORDS.

EXHIBIT G

4.1.1. Anonymous Call Rejection

Call Block

Section 1: Features to be included for purposes of calculating the average number of vertical services per line resold by New Phone:

Call Forwarding (CF) Variable

Call Return

Call Selector

Call Tracing

Call Waiting

Call Waiting Deluxe

Caller ID Basic

Caller ID Deluxe

Flexible CF

Flexible CF/Audio CN

Flexible CF+

Flexible CF+/Audio CN

Preferred CN

Remote Access to CF

Repeat Dialing

RingMaster I

RingMaster II

Speed Calling 30

Speed Calling 8

Three-Way Calling

Three- Way Calling w/ Transfer

Section 2: Features NOT included for purposes of calculating the average number of vertical services per line resold by New Phone:

Complete Choice

Area Plus, (3)

Area Plus with Complete Choice, (4)

Local Optional Service with Complete Choice (available in Louisiana only), and

Area Calling Plan with Complete Choice (available in Mississippi only)

RESALE DISCOUNTS AND RATES - Alabama

CATEGORY	RATE ELEMENTS	Interim	Zone	BCS	USOC	RATES(\$)				Svc Order Submitted Elec per LSR		Svc Order Submitted Manually per LSR		Attachment: 1		Exhibit: F								
										Incremental Charge - Manual Svc Order vs. Electronic-1st	Incremental Charge - Manual Svc Order vs. Electronic-Add'l	Incremental Charge - Manual Svc Order vs. Electronic-Disc 1st	Incremental Charge - Manual Svc Order vs. Electronic-Disc Add'l											
						Rec	Nonrecurring		Nonrecurring Disconnect		OSS Rates(\$)													
		First	Add'l	First	Add'l	SOMEc	SOMAN	SOMAN	SOMAN	SOMAN	SOMAN													
APPLICABLE DISCOUNTS																								
	Residence %					16.30																		
	Business %					16.30																		
	CSAs %					16.30																		
OPERATIONAL SUPPORT SYSTEMS (OSS) RATES																								
NOTE: (1) CLEC should contact its contract negotiator if it prefers the "state specific" OSS charges as ordered by the State Commissions. The OSS charges currently contained in this rate exhibit are the BellSouth "regional" service ordering charges. CLEC may elect either the state specific Commission ordered rates for the service ordering charges, or CLEC may elect the regional service ordering charge, however, CLEC can not obtain a mixture of the two																								
	OSS - Electronic Service Order Charge, Per Local Service Request (LSR) - Resale Only					SOMEc	3.50	0.00	3.50	0.00														
	OSS - Manual Service Order Charge, Per Local Service Request (LSR) - Resale Only					SOMAN	19.99	0.00	19.99	0.00														

RESALE DISCOUNTS AND RATES - Florida											Attachment: 1		Exhibit: F			
CATEGORY	RATE ELEMENTS	Interim	Zone	BCS	USOC	RATES(\$)				Svc Order Submitted Elec per LSR	Svc Order Submitted Manually per LSR	Incremental Charge - Manual Svc Order vs. Electronic- 1st	Incremental Charge - Manual Svc Order vs. Electronic- Add'l	Incremental Charge - Manual Svc Order vs. Electronic- Disc 1st	Incremental Charge - Manual Svc Order vs. Electronic- Disc Add'l	
						Rec	Nonrecurring		Nonrecurring Disconnect		OSS Rates(\$)					
							First	Add'l	First	Add'l	SOMECE	SOMAN	SOMAN	SOMAN	SOMAN	SOMAN
APPLICABLE DISCOUNTS																
	Residence %					21.83										
	Business %					16.81										
	CSAs %					16.81										
OPERATIONAL SUPPORT SYSTEMS (OSS) RATES																
NOTE: (1) CLEC should contact its contract negotiator if it prefers the "state specific" OSS charges as ordered by the State Commissions. The OSS charges currently contained in this rate exhibit are the BellSouth "regional" service ordering charges. CLEC may elect either the state specific Commission ordered rates for the service ordering charges, or CLEC may elect the regional service ordering charge, however, CLEC can not obtain a mixture of the two																
	OSS - Electronic Service Order Charge, Per Local Service Request (LSR) - Resale Only				SOMECE	3.50	0.00	3.50	0.00							
	OSS - Manual Service Order Charge, Per Local Service Request (LSR) - Resale Only				SOMAN	19.99	0.00	19.99	0.00							

RESALE DISCOUNTS AND RATES - Georgia							Attachment: 1		Exhibit: F								
CATEGORY	RATE ELEMENTS	Interim	Zone	BCS	USOC	RATES(\$)				Svc Order Submitted Elec per LSR	Svc Order Submitted Manually per LSR	Incremental Charge - Manual Svc Order vs. Electronic-1st	Incremental Charge - Manual Svc Order vs. Electronic-Add'l	Incremental Charge - Manual Svc Order vs. Electronic-Disc 1st	Incremental Charge - Manual Svc Order vs. Electronic-Disc Add'l		
						Rec	Nonrecurring		Nonrecurring Disconnect		OSS Rates(\$)						
							First	Add'l	First	Add'l	SOME	SOMAN	SOMAN	SOMAN	SOMAN	SOMAN	
APPLICABLE DISCOUNTS																	
	Residence %						20.30										
	Business %						17.30										
	CSAs %						17.30										
OPERATIONAL SUPPORT SYSTEMS (OSS) RATES																	
NOTE: (1) CLEC should contact its contract negotiator if it prefers the "state specific" OSS charges as ordered by the State Commissions. The OSS charges currently contained in this rate exhibit are the BellSouth "regional" service ordering charges. CLEC may elect either the state specific Commission ordered rates for the service ordering charges, or CLEC may elect the regional service ordering charge, however, CLEC can not obtain a mixture of the two																	
	OSS - Electronic Service Order Charge, Per Local Service Request (LSR) - Resale Only					SOME	3.50	0.00	3.50	0.00							
	OSS - Manual Service Order Charge, Per Local Service Request (LSR) - Resale Only					SOMAN	19.99	0.00	19.99	0.00							

RESALE DISCOUNTS AND RATES - Kentucky										Attachment: 1		Exhibit: F			
CATEGORY	RATE ELEMENTS	Interim	Zone	BCS	USOC	RATES(\$)				Svc Order Submitted Elec per LSR	Svc Order Submitted Manually per LSR	Incremental Charge - Manual Svc Order vs. Electronic-1st	Incremental Charge - Manual Svc Order vs. Electronic-Add'l	Incremental Charge - Manual Svc Order vs. Electronic-Disc 1st	Incremental Charge - Manual Svc Order vs. Electronic-Disc Add'l
						Rec	Nonrecurring		Nonrecurring Disconnect		OSS Rates(\$)				
							First	Add'l	First	Add'l	SOME C	SOMAN	SOMAN	SOMAN	SOMAN
APPLICABLE DISCOUNTS															
	Residence %					16.79									
	Business %					15.54									
	CSAs %					15.54									
OPERATIONAL SUPPORT SYSTEMS (OSS) RATES															
NOTE: (1) CLEC should contact its contract negotiator if it prefers the "state specific" OSS charges as ordered by the State Commissions. The OSS charges currently contained in this rate exhibit are the BellSouth "regional" service ordering charges. CLEC may elect either the state specific Commission ordered rates for the service ordering charges, or CLEC may elect the regional service ordering charge, however, CLEC can not obtain a mixture of the two															
	OSS - Electronic Service Order Charge, Per Local Service Request (LSR) - Resale Only				SOME C	3.50	0.00	3.50	0.00						
	OSS - Manual Service Order Charge, Per Local Service Request (LSR) - Resale Only				SOMAN	19.99	0.00	19.99	0.00						

RESALE DISCOUNTS AND RATES - Louisiana											Attachment: 1		Exhibit: F								
CATEGORY	RATE ELEMENTS	Interim	Zone	BCS	USOC	RATES(\$)	Svc Order Submitted Elec per LSR	Svc Order Submitted Manually per LSR	Incremental Charge - Manual Svc Order vs. Electronic-1st	Incremental Charge - Manual Svc Order vs. Electronic-Add'l	Incremental Charge - Manual Svc Order vs. Electronic-Disc 1st	Incremental Charge - Manual Svc Order vs. Electronic-Disc Add'l	OSS Rates(\$)								
													Rec	Nonrecurring		Nonrecurring Disconnect		SOME C	SOMAN	SOMAN	SOMAN
						First	Add'l	First	Add'l												
APPLICABLE DISCOUNTS																					
	Residence %					20.72															
	Business %					20.72															
	CSAs %					9.05															
OPERATIONAL SUPPORT SYSTEMS (OSS) RATES																					
NOTE: (1) CLEC should contact its contract negotiator if it prefers the "state specific" OSS charges as ordered by the State Commissions. The OSS charges currently contained in this rate exhibit are the BellSouth "regional" service ordering charges. CLEC may elect either the state specific Commission ordered rates for the service ordering charges, or CLEC may elect the regional service ordering charge, however, CLEC can not obtain a mixture of the two																					
	OSS - Electronic Service Order Charge, Per Local Service Request (LSR) - Resale Only				SOME C		3.50	0.00	3.50	0.00											
	OSS - Manual Service Order Charge, Per Local Service Request (LSR) - Resale Only				SOMAN		19.99	0.00	19.99	0.00											

RESALE DISCOUNTS AND RATES - Mississippi										Attachment: 1		Exhibit: F				
CATEGORY	RATE ELEMENTS	Interim	Zone	BCS	USOC	RATES(\$)	Svc Order Submitted Elec per LSR	Svc Order Submitted Manually per LSR	Incremental Charge - Manual Svc Order vs. Electronic-1st	Incremental Charge - Manual Svc Order vs. Electronic-Add'l	Incremental Charge - Manual Svc Order vs. Electronic-Disc 1st	Incremental Charge - Manual Svc Order vs. Electronic-Disc Add'l				
							Rec	Nonrecurring		Nonrecurring Disconnect		OSS Rates(\$)				
							First	Add'l	First	Add'l	SOME C	SOMAN	SOMAN	SOMAN	SOMAN	SOMAN
APPLICABLE DISCOUNTS																
	Residence %					15.75										
	Business %					15.75										
	CSAs %					15.75										
OPERATIONAL SUPPORT SYSTEMS (OSS) RATES																
NOTE: (1) CLEC should contact its contract negotiator if it prefers the "state specific" OSS charges as ordered by the State Commissions. The OSS charges currently contained in this rate exhibit are the BellSouth "regional" service ordering charges. CLEC may elect either the state specific Commission ordered rates for the service ordering charges, or CLEC may elect the regional service ordering charge, however, CLEC can not obtain a mixture of the two																
	OSS - Electronic Service Order Charge, Per Local Service Request (LSR) - Resale Only						SOME C	3.50	0.00	3.50	0.00					
	OSS - Manual Service Order Charge, Per Local Service Request (LSR) - Resale Only						SOMAN	19.99	0.00	19.99	0.00					

RESALE DISCOUNTS AND RATES - North Carolina											Attachment: 1		Exhibit: F		
CATEGORY	RATE ELEMENTS	Interim	Zone	BCS	USOC	RATES(\$)				Svc Order Submitted Elec per LSR	Svc Order Submitted Manually per LSR	Incremental Charge - Manual Svc Order vs. Electronic-1st	Incremental Charge - Manual Svc Order vs. Electronic-Add'l	Incremental Charge - Manual Svc Order vs. Electronic-Disc 1st	Incremental Charge - Manual Svc Order vs. Electronic-Disc Add'l
						Rec	Nonrecurring		Nonrecurring Disconnect		OSS Rates(\$)				
						First	Add'l	First	Add'l	SOMEc	SOMAN	SOMAN	SOMAN	SOMAN	SOMAN
APPLICABLE DISCOUNTS															
	Residence %					21.50									
	Business %					17.60									
	CSAs %					17.60									
OPERATIONAL SUPPORT SYSTEMS (OSS) RATES															
NOTE: (1) CLEC should contact its contract negotiator if it prefers the "state specific" OSS charges as ordered by the State Commissions. The OSS charges currently contained in this rate exhibit are the BellSouth "regional" service ordering charges. CLEC may elect either the state specific Commission ordered rates for the service ordering charges, or CLEC may elect the regional service ordering charge, however, CLEC can not obtain a mixture of the two															
	OSS - Electronic Service Order Charge, Per Local Service Request (LSR) - Resale Only				SOMEc	3.50	0.00	3.50	0.00						
	OSS - Manual Service Order Charge, Per Local Service Request (LSR) - Resale Only				SOMAN	19.99	0.00	19.99	0.00						

RESALE DISCOUNTS AND RATES - South Carolina											Attachment: 1		Exhibit: F									
CATEGORY	RATE ELEMENTS	Interim	Zone	BCS	USOC	RATES(\$)	Svc Order Submitted Elec per LSR	Svc Order Submitted Manually per LSR	Incremental Charge - Manual Svc Order vs. Electronic-1st	Incremental Charge - Manual Svc Order vs. Electronic-Add'l	Incremental Charge - Manual Svc Order vs. Electronic-Disc 1st	Incremental Charge - Manual Svc Order vs. Electronic-Disc Add'l	OSS Rates(\$)									
													Rec	Nonrecurring		Nonrecurring Disconnect		SOMEK	SOMAN	SOMAN	SOMAN	SOMAN
													First	Add'l	First	Add'l						
APPLICABLE DISCOUNTS																						
	Residence %					14.80																
	Business %					14.80																
	CSAs %					8.98																
OPERATIONAL SUPPORT SYSTEMS (OSS) RATES																						
NOTE: (1) CLEC should contact its contract negotiator if it prefers the "state specific" OSS charges as ordered by the State Commissions. The OSS charges currently contained in this rate exhibit are the BellSouth "regional" service ordering charges. CLEC may elect either the state specific Commission ordered rates for the service ordering charges, or CLEC may elect the regional service ordering charge, however, CLEC can not obtain a mixture of the two																						
	OSS - Electronic Service Order Charge, Per Local Service Request (LSR) - Resale Only						SOMEK															
	OSS - Manual Service Order Charge, Per Local Service Request (LSR) - Resale Only						SOMAN															

RESALE DISCOUNTS AND RATES - Tennessee											Attachment: 1		Exhibit: F		
CATEGORY	RATE ELEMENTS	Interim	Zone	BCS	USOC	RATES(\$)				Svc Order Submitted Elec per LSR	Svc Order Submitted Manually per LSR	Incremental Charge - Manual Svc Order vs. Electronic- 1st	Incremental Charge - Manual Svc Order vs. Electronic- Add'l	Incremental Charge - Manual Svc Order vs. Electronic- Disc 1st	Incremental Charge - Manual Svc Order vs. Electronic- Disc Add'l
						Rec	Nonrecurring First	Add'l	Nonrecurring Disconnect First						
										SOMEc	SOMAN	SOMAN	SOMAN	SOMAN	SOMAN
APPLICABLE DISCOUNTS															
	Residence %						16.00								
	Business %						16.00								
	CSAs %						16.00								
OPERATIONAL SUPPORT SYSTEMS (OSS) RATES															
NOTE: (1) CLEC should contact its contract negotiator if it prefers the "state specific" OSS charges as ordered by the State Commissions. The OSS charges currently contained in this rate exhibit are the BellSouth "regional" service ordering charges. CLEC may elect either the state specific Commission ordered rates for the service ordering charges, or CLEC may elect the regional service ordering charge, however, CLEC can not obtain a mixture of the two															
	OSS - Electronic Service Order Charge, Per Local Service Request (LSR) - Resale Only					SOMEc	3.50	0.00	3.50	0.00					
	OSS - Manual Service Order Charge, Per Local Service Request (LSR) - Resale Only					SOMAN	19.99	0.00	19.99	0.00					

Attachment 2

Network Elements and Other Services

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ACCESS TO NETWORK ELEMENTS AND OTHER SERVICES

1. Introduction

- 1.1 Network Element is defined to mean a facility or equipment used in the provision of a telecommunications service. Such term may include, but is not limited to, features, functions, and capabilities that are provided by means of such facility or equipment, including but not limited to, subscriber numbers, databases, signaling systems, and information sufficient for billing and collection or used in the transmission, routing, or other provision of a telecommunications service. BellSouth offers access to the Network Elements, unbundled loops; network interface device; sub-loop elements; local switching; transport; tandem switching; operator systems; signaling; access to call-related databases; dark fiber as set forth in this Attachment.
- 1.2 BellSouth shall, upon request of New Phone, and to the extent technically feasible, provide to New Phone access to its network elements for the provision of New Phone'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.
- 1.3 New Phone may purchase network elements and other services from BellSouth for the purpose of combining such network elements in any manner New Phone 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 New Phone for combining to the designated New Phone collocation space. The network elements shall be provided as set forth in this Attachment.
- 1.4 BellSouth will provide the following combined network elements for purchase by New Phone. 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:
- SL1 or 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
- SL1 or SL2 Loop and LNP

1.5 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.

1.6 New Phone will adopt and adhere to the standards contained in the applicable CLEC Work Center Operational Understanding Agreement regarding maintenance and installation of service, provided however that nothing required in this Work Center Operational Understanding Agreement shall override New Phone's rights or BellSouth's obligations under this Agreement.

2. Unbundled Loops

2.1 BellSouth agrees to offer access to loops pursuant to the following terms and conditions and at the rates set forth in this Attachment.

2.2 Definition

2.2.1 The loop is the physical medium or functional path on which a subscriber's traffic is carried from the MDF or similar terminating device in a central office up to the termination at the NID at the customer's premise. Each loop will be provisioned with a NID.

2.2.2 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.

Order Coordination and Order Coordination-Time Specific

2.2.3 "Order Coordination" (OC) allows BellSouth and New Phone to coordinate the installation of the SL2 Loops, Unbundled Digital Loops (UDL) and other Loops where OC may be purchased as an option, to New Phone's facilities to limit end user service outage. OC is available when the Loop is provisioned over an existing circuit that is currently providing service to the end user. OC for physical conversions will be scheduled at BellSouth's discretion during normal working hours on the committed due date. OC shall be provided in accordance with the chart set forth below.

2.2.4 “Order Coordination – Time Specific” (OC-TS) allows New Phone to order a specific time for OC to take place. BellSouth will make every effort to accommodate New Phone’s specific conversion time request. However, BellSouth reserves the right to negotiate with New Phone a conversion time based on load and appointment control when necessary. Loops on a single service order of 14 or more loops will be provisioned on a project basis. This OC-TS is a chargeable option for all Loops except Unbundled Copper Loops (UCL) and Universal Digital Channel (UDC), and is billed in addition to the OC charge. New Phone may specify a time between 9:00 a.m. and 4:00 p.m. (location time) Monday through Friday (excluding holidays). If New Phone 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 based on the amount of overtime worked and in accordance with the rates established in the Access Services Tariff, Section E13.2, for each state. The OC-TS charges for an order due on the same day at the same location will be applied on a per Local Service Request (LSR) basis.

	Order Coordination (OC)	Order Coordination – Time Specific (OC-TS)	Test Points	DLR	CHARGE FOR DISPATCH AND TESTING IF NO TROUBLE FOUND
SL-1	Chargeable Option	Chargeable Option	Not available	Chargeable Option – ordered as Engineering Information Document	Charged for Dispatch inside and outside Central Office
UCL-ND	Chargeable Option	Not Available	Not Available	Chargeable Option – ordered as Engineering Information Document	Charged for Dispatch inside and outside Central Office
Unbundled Voice Loops - SL-2 (including 2- and 4-wire UVL)	Included	Chargeable Option	Included	Included	Charged for Dispatch outside Central Office
Unbundled Digital Loop	Included	Chargeable Option (except on Universal Digital Channel)	Included (where appropriate)	Included	Charged for Dispatch outside Central Office
Unbundled Copper Loop	Chargeable in accordance with Section 2	Not available	Included	Included	Charged for Dispatch outside Central Office
For UVL-SL1 and UCLs, New Phone must order and will be billed for both OC and OC-TS if requesting OC-TS.					

2.2.5 Testing

2.2.5.1 BellSouth will perform the appropriate pre-service tests to ensure New Phone dial tone is delivered to the appropriate connecting point. The timing of the test is based on the overall interval and type of the service being provisioned. Under normal intervals, testing for designed services are normally completed 24 hours in advance of the conversion. For non-designed services, dial tone is verified in time frames consistent with the same time frames that BellSouth uses to activate POTS services for it's own end users. In any event, BellSouth will advise New Phone whenever connectivity cannot be verified with New Phone and will work cooperatively with New Phone to correct the problem. BellSouth will advise New Phone at completion of the conversion or turn up of new services in order for New Phone to accept or reject the services being provisioned. BellSouth will work cooperatively with New Phone to ensure end user service outage is minimal.

2.2.5.2 Where a field visit is required to provision the loop, BellSouth will test the loop ordered by New Phone to the NID. Testing requested by New Phone to points beyond the NID will be billed a time and material charge at the same increments BellSouth charges it's own end users. Requests for field-testing where a dispatch is not required may be made by New Phone and where mutually agreed to, BellSouth will dispatch to perform additional field testing at rates billed on a time and material basis as mentioned in the previous paragraph.

BellSouth will place a tag on all unbundled loops that require a technician to be dispatched to the end user's premises during the provisioning process. The loop tag will include the CLEC's name and the circuit ID number. Otherwise, the loop will be tagged by BellSouth during the next scheduled maintenance or repair visit to the customer's location for that loop; or the loop may be tagged by the CLEC during their dispatch to that customer's location.

2.2.5.3 Cut-over intervals for ILNP, ILNP with loop and LNP with loop will be at parity with the intervals experienced by BellSouth end users, BellSouth itself or any other New Phone as indicated in the results of the Service Quality Measurements published by BellSouth. In any event, BellSouth will use best efforts to convert each loop within fifteen (15) minutes.

2.2.5.4 BellSouth and New Phone will jointly develop additional processes or procedures as the need arises to improve service delivery during the life of the agreement.

- 2.2.6 Where facilities are available, BellSouth will install unbundled loops at the same intervals that it does for itself, its end-users, and other CLECs at parity as described above. Where BellSouth does not provide intervals based on the above, BellSouth will be subject to the terms and conditions of the performance measures in accordance with Attachment 9. 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 New Phone, expedite charges will apply for intervals less than 5 days. The charges outlined in BST's FCC # 1 Tariff, Section 5.1.1, will apply. BellSouth will bill expedite charges the same as BellSouth bills its wholesale customers and other CLECs. If New Phone 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.
- 2.2.7 If New Phone modifies an order after being sent a Firm Order Confirmation (FOC) from BellSouth, reasonable costs incurred by BellSouth to accommodate the modification will be reimbursed by New Phone. Upon request BellSouth will provide New Phone an invoice detailing such charges.
- 2.2.8 BellSouth will offer Unbundled Voice Loops (UVL) in two different service levels - Service Level One (SL1) and Service Level Two (SL2).
- 2.2.8.1 Unbundled Voice Loop - SL1 (UVL-SL1) loops are 2-wire loop start circuits, will be non-designed, and will not have remote access test points. OC will be offered as a chargeable option on SLI loops when reuse of existing facilities has been requested by New Phone. New Phone may also order OC-TS when a specified conversion time is requested. OC-TS is a chargeable option for any coordinated order and is billed in addition to the OC charge. An Engineering Information (EI) document can be ordered as chargeable option. The EI document provides loop make up information which is similar to the information normally provided in a Design Layout Record. Upon issuance of a non-coordinated 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 end users
- 2.2.8.2 SL2 loops have test points, will be designed with a Design Layout Record provided to New Phone, and will be provided with Order Coordination. The OC feature will allow New Phone 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 the mutually agreed upon time during normal working hours.

- 2.2.9 Unbundled Digital Loops
- 2.2.9.1 BellSouth will offer Unbundled Digital Loops (UDL). UDLs are service specific, will be designed, will be provisioned with test points (where appropriate), and will come standard with OC and a Design Layout Record (DLR). The various UDLs are intended to support a specific digital transmission scheme or service.
- 2.2.9.2 BellSouth shall make available the following UDLs:
 - 2.2.9.2.1 2-wire Unbundled ISDN Digital Loop
 - 2.2.9.2.2 2-wire Universal Digital Channel (IDSL Compatible)
 - 2.2.9.2.3 2-wire Unbundled ADSL Compatible Loop
 - 2.2.9.2.4 2-wire Unbundled HDSL Compatible Loop
 - 2.2.9.2.5 4-wire Unbundled HDSL Compatible Loop
 - 2.2.9.2.6 4-wire Unbundled DS1 Digital Loop
 - 2.2.9.2.7 4-wire Unbundled Digital Loop/DS0 – 64 kbps, 56 kbps and below
 - 2.2.9.2.8 DS3 Loop
 - 2.2.9.2.9 STS-1 Loop
 - 2.2.9.2.10 OC3 Loop
 - 2.2.9.2.11 OC12 Loop
 - 2.2.9.2.12 OC48 Loop
- 2.2.9.3 2-Wire Unbundled ISDN Digital Loops will be provisioned according to industry standards for 2-Wire Basic Rate ISDN services and will come standard with a test point, Order Coordination, and a DLR. New Phone 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. BellSouth will not reconfigure its ISDN-capable loop to support IDSL service.

- 2.2.9.4 The Universal Digital Channel (UDC) (also known as IDSL-compatible Loop) is intended to be compatible with IDSL service and has the same physical characteristics and transmission specifications as BellSouth's ISDN-capable loop. These specifications are listed in BellSouth's TR73600.
- 2.2.9.5 The UDC may be provisioned on copper or through a Digital Loop Carrier (DLC) system. When UDC Loops are provisioned using a DLC system, the Loops will be provisioned on time slots that are compatible with data-only services such as IDSL.
- 2.2.9.6 2-Wire ADSL-Compatible Loop. This is a designed loop that is provisioned according to Revised Resistance Design (RRD) criteria and may be up to 18kft long and may have up to 6kft of bridged tap (inclusive of loop length). The loop is a 2-wire circuit and will come standard with a test point, Order Coordination, and a DLR.
- 2.2.9.7 2-Wire or 4-Wire HDSL-Compatible Loop. This is a designed loop that is provisioned according to Carrier Serving Area (CSA) criteria and may be up to 12,000 feet long and may have up to 2,500 feet of bridged tap (inclusive of loop length). It may be a 2-wire or 4-wire circuit and will come standard with a test point, Order Coordination, and a DLR.
- 2.2.9.8 4-Wire Unbundled DS1 Digital Loop. This is a designed 4-wire loop that is provisioned according to industry standards for DS1 or Primary Rate ISDN services and will come standard with a test point, Order Coordination, and a DLR.
- 2.2.9.9 4-Wire Unbundled Digital/DS0 Loop. These are designed 4-wire loops that may be configured as 64kbps, 56kbps, 19kbps, and other sub-rate speeds associated with digital data services and will come standard with a test point, Order Coordination, and a DLR.
- 2.2.9.10 DS3 Loop. DS3 Loop is a two-point digital transmission path, which provides for simultaneous two-way transmission of serial, bipolar, return-to-zero isochronous digital electrical signals at a transmission rate of 44.736 megabits per second (Mbps) that is dedicated to the use of the ordering CLEC in its provisioning of local exchange and associated exchange access services. It may provide transport for twenty-eight (28) DS1 channels, each of which provides the digital equivalent of twenty-four analog voice grade channels. The interface to unbundled dedicated DS3 transport is a metallic-based electrical interface.

- 2.2.9.11 STS-1 Loop. STS-1 Loop is a high-capacity digital transmission path with SONET VT1.5 mapping that is dedicated for the use of the ordering customer for the purpose of provisioning local exchange and associated exchange access services. It is a two-point digital transmission path, which provides for simultaneous two-way transmission of serial bipolar return-to-zero synchronous digital electrical signals at a transmission rate of 51.84 megabits per second (Mbps). It may provide transport for twenty-eight (28) DS1 channels, each of which provides the digital equivalent of twenty-four analog voice grade channels. The interface to unbundled dedicated STS-1 transport is a metallic-based electrical interface.
- 2.2.9.12 OC3 Loop/OC12 Loop/OC48 Loop. OC3/OC-12/OC-48 Loops are optical two-point transmission paths that are dedicated to the use of the ordering CLEC in its provisioning of local exchange and associated exchange access services. The physical interface for all optical transport is optical fiber. This interface standard allows for transport of many different digital signals using a basic building block or base transmission rate of 51.84 megabits per second (Mbps). Higher rates are direct multiples of the base rate. The following rates are applicable: OC-3 - 155.52 Mbps; OC12 - 622.08 Mbps; and OC-48 - 2488 Mbps.
- 2.2.9.13 DS3 and above services come with a test point and a DLR. Mileage is airline miles, rounded up and a minimum of one mile applies. BellSouth TR 73501 LightGate[®] Service Interface and Performance Specifications, Issue D, June 1995 applies to DS3 and above services.
- 2.2.10 Unbundled Copper Loops (UCL)
- 2.2.10.1 BellSouth shall make available Unbundled Copper Loops (UCLs). The UCL is a copper twisted pair Loop that is unencumbered by any intervening equipment (e.g., filters, load coils, range extenders, digital loop carrier, or repeaters) and is not intended to support any particular telecommunications service. The UCL will be offered in two types – Designed and Non-Designed.
- 2.2.10.2 Unbundled Copper Loop – Designed (UCL-D)
- 2.2.10.2.1 The UCL-D will be provisioned as a dry 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-D will be offered in two versions - Short and Long.
- 2.2.10.2.2 A short UCL-D (18,000 feet or less) is provisioned according to Resistance Design parameters, may have up to 6,000 feet of bridged tap and will have up to 1300 ohms of resistance.

- 2.2.10.2.3 The long UCL-D (beyond 18,000 feet) is provisioned as a dry copper twisted pair longer than 18,000 feet and may have up to 12,000 feet of bridged tap and up to 2800 ohms of resistance.
- 2.2.10.2.4 The UCL-D is a designed circuit, is provisioned with a test point and comes standard with a DLR. OC is required on UCLs where a reuse of existing facilities has been requested by New Phone.
- 2.2.10.2.5 These loops are not intended to support any particular services and may be utilized by New Phone to provide a wide-range of telecommunications services so long as those services do not adversely affect BellSouth's network. This facility will include a Network Interface Device (NID) at the customer's location for the purpose of connecting the loop to the customer's inside wire.
- 2.2.10.2.6 BellSouth will make available the following UCL-Ds:
 - 2.2.10.2.6.1 2-Wire UCL-D/short
 - 2.2.10.2.6.2 2-Wire UCL-D/long
 - 2.2.10.2.6.3 4-Wire UCL-D/short
 - 2.2.10.2.6.4 4-Wire UCL-D/long
- 2.2.10.2.7 Unbundled Copper Loop – Non-Designed (UCL-ND)
 - 2.2.10.2.7.1 The UCL-ND is provisioned as a dedicated 2-wire metallic transmission facility from BellSouth's Main Distribution Frame to a customer's premises (including the NID). The UCL-ND will be a "dry copper" facility in that it will not have any intervening equipment such as load coils, repeaters, or digital access main lines ("DAMLs"), and may have up to 6,000 feet of bridged tap between the end user's premises and the serving wire center. The UCL-ND typically will be 1300 Ohms resistance and in most cases will not exceed 18,000 feet in length, although the UCL-ND will not have a specific length limitation. For loops less than 18,000 feet and with less than 1300 Ohms resistance, the loop will provide a voice grade transmission channel suitable for loop start signaling and the transport of analog voice grade signals. The UCL-ND will not be designed and will not be provisioned with either a DLR or a test point.
 - 2.2.10.2.7.2 The UCL-ND facilities may be mechanically assigned using BellSouth's assignment systems. Therefore, the Loop Make Up process is not required to order and provision the UCL-ND. However, New Phone can request Loop Make Up for which additional charges would apply.

- 2.2.10.2.7.3 At an additional charge, BellSouth also will make available Loop Testing so that New Phone may request further testing on the UCL-ND. Rates for Loop Testing are as set forth in Exhibit B of this Attachment.
- 2.2.10.2.7.4 UCL-ND loops are not intended to support any particular service and may be utilized by New Phone to provide a wide-range of telecommunications services so long as those services do not adversely affect BellSouth's network. The UCL-ND will include a Network Interface Device (NID) at the customer's location for the purpose of connecting the loop to the customer's inside wire.
- 2.2.10.2.7.5 Order Coordination (OC) will be provided as a chargeable option and may be utilized when the UCL-ND provisioning is associated with the reuse of BellSouth facilities. Order Coordination -Time Specific (OC-TS) does not apply to this product.
- 2.2.11 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 New Phone will be responsible for testing and isolating troubles on the loops. Once New Phone has isolated a trouble to the BellSouth provided loop, New Phone 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.
- 2.2.12 If New Phone reports a trouble on loops and no trouble actually exists, BellSouth will charge New Phone for any dispatching and testing (both inside and outside the CO) required by BellSouth in order to confirm the loop's working status. Failure of BellSouth personnel to find trouble in BellSouth facilities will result in no charge if trouble is actually in those facilities but not discovered at the time.

2.3 Technical Requirements

- 2.3.1 To the extent available within BST's Network at a particular location, BellSouth will offer loops capable of supporting telecommunications services such as: Voice Grade (designed and non-designed), basic rate ISDN (even if the loop uses digital loop carrier), ADSL, HDSL (2 and 4 wire), DS1, digital data (up to 64 kbps), primary rate ISDN, and copper loops that are capable of supporting xDSL services. If a requested loop type is not available, New Phone can use the Special Construction process to request that BellSouth place facilities or otherwise modify facilities in order to meet New Phone's request.

2.3.1.1 These loop types may also support other telecommunications services that the CLEC may offer, including, but not limited to, Centrex, PBX (analog and data), and N x 64 kbps.

The loop will support the transmission, signaling, performance and interface requirements of the services described in 2.3.1 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 New Phone will be consistent with industry standards and BellSouth TR73600.

2.3.1.2 New Phone 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 provided, however BellSouth will condition the loops consistent with New Phone's request. For example, if New Phone 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 New Phone using the Special Construction process), BellSouth will only support that the loop has electrical continuity and balanced tip-and-ring.

2.3.1.3 In those cases where New Phone has requested that BellSouth modify a loop so that it no longer meets the technical parameters for a specific loop (e.g., voice grade, ISDN, ADSL, etc.), the resulting modified loop will be ordered and maintained as a Unbundled Cooper Loop.

2.3.2 The loop shall be provided to New Phone in accordance with the following Technical References:

BellSouth's TR73600, Unbundled Local Loop Technical Specification

2.3.2.1 Telcordia (formerly BellCore) TR-NWT-000057, Functional Criteria for Digital Loop Carrier Systems, Issue 2, January 1993.

2.3.2.2 Telcordia (formerly BellCore) TR-NWT-000393, Generic Requirements for ISDN Basic Access Digital Subscriber Lines.

2.3.2.3 ANSI T1.102 - 1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces.

- 2.3.2.4 ANSI T1.403 - 1989, American National Standard for Telecommunications - Carrier to Customer Installation, DS1 Metallic Interface Specification.

- 2.4 Loop Makeup (LMU)

 - 2.4.1 Description of Service
 - 2.4.1.1 BellSouth shall make available to New Phone (LMU) information so that New Phone can make an independent judgment about whether the Loop is capable of supporting the advanced services equipment New Phone intends to install and the services New Phone wishes to provide. This section addresses LMU as a preordering transaction, distinct from New Phone ordering any other service(s). Loop Makeup Service Inquiries (LMUSI) for preordering loop makeup are likewise unique from other preordering functions with associated service inquiries (SI) as described in this Agreement.
 - 2.4.1.2 BellSouth will provide New Phone LMU information consisting of the composition of the loop material (copper/fiber); the existence, location and type of equipment on the Loop, including but not limited to digital loop carrier or other remote concentration devices, feeder/distribution interfaces, bridged taps, load coils, pair-gain devices; the loop length; the wire gauge and electrical parameters.
 - 2.4.1.3 BellSouth's LMU information is provided to New Phone as it exists either in BellSouth's databases or in its hard copy facility records. BellSouth does not guarantee accuracy or reliability of the LMU information provided.
 - 2.4.1.4 New Phone may choose to use equipment that it deems will enable it to provide a certain type and level of service over a particular BellSouth Loop. The determination shall be made solely by New Phone and BellSouth shall not be liable in any way for the performance of the advanced data services provisioned over said Loop. The specific Loop type (ADSL, HDSL, or otherwise) ordered on the LSR must match the LMU of the loop reserved taking into consideration any requisite line conditioning. The LMU data is provided for informational purposes only and does not guarantee New Phone's ability to provide advanced data services over the ordered loop type. Further, if New Phone orders loops that are not intended to support advanced services (such as UV-SL1, UV-SL2, or ISDN compatible loops) and that are not inventoried as advanced services loops, the LMU information for such loops is subject to change at any time due to modifications and/or upgrades to BellSouth's network. New Phone is fully responsible for any of its service configurations that may differ from BellSouth's technical standard for the loop type ordered.

- 2.4.2 Submitting Loop Makeup Service Inquiries
 - 2.4.2.1 New Phone may obtain LMU information by submitting a LMU Service Inquiry (LMUSI) mechanically or manually. Mechanized LMUSIs should be submitted through BellSouth's Operational Support Systems interfaces. After obtaining the Loop information from the mechanized LMUSI process, if New Phone needs further loop information in order to determine loop service capability, New Phone may initiate a separate Manual Service Inquiry for a separate nonrecurring charge as set forth in Exhibit B of this Attachment.
 - 2.4.2.2 Manual LMUSIs shall be submitted by electronic mail to BellSouth's Complex Resale Support Group (CRSG)/Account Team utilizing the Preordering Loop Makeup Service Inquiry form. The service interval for the return of a Loop Makeup Manual Service Inquiry is three business days. Manual LMUSIs are not subject to expedite requests. This service interval is distinct from the interval applied to the subsequent service order.
 - 2.4.2.3 Loop Reservations
 - 2.4.2.3.1 For a Mechanized LMUSI, New Phone may reserve up to ten Loop facilities. For a Manual LMUSI, New Phone may reserve up to three Loop facilities.
 - 2.4.2.3.2 New Phone may reserve facilities for up to four (4) business days for each facility requested on a LMUSI from the time the LMU information is returned to New Phone. During and prior to New Phone placing an LSR, the reserved facilities are rendered unavailable to other customers, including BellSouth. If New Phone does not submit an LSR for a UNE service on a reserved facility within the four-day reservation timeframe, the reservation of that spare facility will become invalid and the facility will be released.
 - 2.4.2.3.3 Charges for preordering LMUSI are separate from any charges associated with ordering other services from BellSouth.
 - 2.4.2.3.4 Ordering of Other UNE Services
 - 2.4.2.3.4.1 All LSRs issued for reserved facilities shall reference the facility reservation number as provided by BellSouth. New Phone will not be billed any additional LMU charges for the loop ordered on such LSR. If, however, New Phone does not reserve facilities upon an initial LMUSI, New Phone's placement of an order for an advanced data service type facility will incur the appropriate billing charges to include service inquiry and reservation per Exhibit B of this Attachment.

2.4.2.3.4.2 Where New Phone has reserved multiple Loop facilities on a single reservation, New Phone may not specify which facility shall be provisioned when submitting the LSR. For those occasions, BellSouth will assign to New Phone, subject to availability, a facility that meets the BellSouth technical standards of the BellSouth type Loop as ordered by New Phone. If the ordered Loop type is not available, New Phone may utilize the Unbundled Loop Modification process or the Special Construction process, as applicable, to obtain the Loop type ordered.

2.4.3 High Frequency Spectrum Network Element

2.4.3.1 General

2.4.3.1.1 BellSouth shall provide New Phone access to the high frequency spectrum of the local loop as an unbundled network element only where BellSouth is the voice service provider to the end user at the rates set forth in this Attachment.

2.4.3.1.2 The High Frequency Spectrum is defined as the frequency range above the voiceband on a copper loop facility carrying analog circuit-switched voiceband transmissions. Access to the High Frequency Spectrum is intended to allow New Phone the ability to provide Digital Subscriber Line (“xDSL”) data services to the end user for which BellSouth provides voice services. The High Frequency Spectrum shall be available for any version of xDSL complying with Spectrum Management Class 5 of ANSI T1.417, American National Standard for Telecommunications, Spectrum Management for Loop Transmission Systems. BellSouth will continue to have access to the low frequency portion of the loop spectrum (from 300 Hertz to at least 3000 Hertz, and potentially up to 3400 Hertz, depending on equipment and facilities) for the purposes of providing voice service. New Phone shall only use xDSL technology that is within the PSD mask for Spectrum Management Class 5 as found in the above-mentioned document.

2.4.3.1.3 Access to the High Frequency Spectrum requires an unloaded, 2-wire copper Loop. An unloaded Loop is a copper Loop with no load coils, low-pass filters, range extenders, DAMLs, or similar devices and minimal bridged taps consistent with ANSI T1.413 and T1.601.

2.4.3.1.4 BellSouth will provide Loop Modification to New Phone on an existing Loop in accordance with procedures developed in the Line Sharing Collaborative. High Frequency Spectrum (Central Office Based) Unbundled Loop Modification is a separate distinct service from Unbundled Loop Modification set forth in Section 2.5 of this Attachment. Procedures for High Frequency Spectrum (Central Office Based) Unbundled Loop Modification were developed in the Line Sharing Collaborative and may be found posted to the web at

<http://www.interconnection.bellsouth.com/html/unes.html>. Nonrecurring rates for this UNE offering may be found in Exhibit B of this Attachment. BellSouth is not required to modify a Loop for access to the High Frequency spectrum if modification of that Loop significantly degrades BellSouth's voice service. If New Phone requests that BellSouth modify a Loop longer than 18,000 ft. and such modification significantly degrades the voice services on the Loop, New Phone shall pay for the Loop to be restored to its original state.

2.4.4 Provisioning of High Frequency Spectrum and Splitter Space

2.4.4.1 BellSouth will provide New Phone with access to the High Frequency Spectrum as follows:

2.4.4.2 To order High Frequency Spectrum on a particular Loop, New Phone must have a Digital Subscriber Line Access Multiplexer (DSLAM) collocated in the central office that serves the end-user of such Loop.

2.4.4.3 New Phone may provide its own splitters or may order splitters in a central office once it has installed its DSLAM in that central office. BellSouth will install splitters within thirty-six (36) calendar days of New Phone's submission of an error free Line Splitter Ordering Document ("LSOD") to the BellSouth Complex Resale Support Group.

2.4.4.4 Once a splitter is installed on behalf of New Phone in a central office in which New Phone is located, New Phone shall be entitled to order the High Frequency Spectrum on lines served out of that central office. BellSouth will bill and New Phone shall pay the electronic or manual ordering charges as applicable when New Phone orders High Frequency Spectrum for end-user service.

2.4.4.5 BellSouth will select, purchase, install, and maintain a central office POTS splitter and provide New Phone access to data ports on the splitter. The splitter will route the High Frequency Spectrum on the circuit to New Phone's xDSL equipment in New Phone's collocation space. At least 30 days before making a change in splitter suppliers, BellSouth will provide New Phone with a carrier notification letter, informing New Phone of change. New Phone shall purchase ports on the splitter in increments of 8 or 24 ports.

2.4.4.6 BellSouth will install the splitter in (i) a common area close to New Phone's collocation area, if possible; or (ii) in a BellSouth relay rack as close to New Phone's DS0 termination point as possible. New Phone shall have access to the splitter for test purposes, regardless of where the splitter is placed in the BellSouth premises. For purposes of this section, a common area is defined as an area in the central office in which both Parties have access to a common test

access point. A Termination Point is defined as the point of termination for New Phone on the toll main distributing frame in the central office and is not the demarcation point set forth in Attachment 4 of this Agreement. BellSouth will cross-connect the splitter data ports to a specified New Phone DS0 at such time that a New Phone end user's service is established.

- 2.4.4.7 New Phone may at its option purchase, install and maintain central office POTS splitters in its collocation arrangements. New Phone may use such splitters for access to its customers and to provide digital line subscriber services to its customers using the High Frequency Spectrum. Existing Collocation rules and procedures shall apply.
- 2.4.4.8 Any splitters installed by New Phone in its collocation arrangement shall comply with ANSI T1.413, Annex E, or any future ANSI splitter Standards. New Phone may install any splitters that BellSouth deploys or permits to be deployed for itself or any BellSouth affiliate.
- 2.4.4.9 The High Frequency Spectrum shall only be available on Loops on which BellSouth is also providing, and continues to provide, analog voice service directly to the end user. In the event the end-user terminates its BellSouth provided voice service for any reason, or in the event BellSouth disconnects the end user's voice service pursuant to its tariffs or applicable law, and New Phone desires to continue providing xDSL service on such Loop, New Phone shall be required to purchase a full stand-alone Loop unbundled network element. To the extent commercially practicable, BellSouth shall give New Phone notice in a reasonable time prior to disconnect, which notice shall give New Phone an adequate opportunity to notify BellSouth of its intent to purchase such Loop. In those cases in which BellSouth no longer provides voice service to the end user and New Phone purchases the full stand-alone Loop, New Phone may elect the type of loop it will purchase. New Phone will pay the appropriate recurring and non-recurring rates for such Loop as set forth in Exhibit B to this Attachment. In the event New Phone purchases a voice grade Loop, New Phone acknowledges that such Loop may not remain xDSL compatible.
- 2.4.4.10 Only one competitive local exchange carrier shall be permitted access to the High Frequency Spectrum of any particular loop.
- 2.4.5 Ordering
- 2.4.5.1 New Phone shall use BellSouth's Line Splitter Ordering Document ("LSOD") to order splitters from BellSouth and to activate and deactivate DS0 Collocation Connecting Facility Assignments (CFA) for use with High Frequency Spectrum.

- 2.4.5.2 BellSouth will provide New Phone the Local Service Request (“LSR”) format to be used when ordering the High Frequency Spectrum.
- 2.4.5.3 BellSouth will provision High Frequency Spectrum in compliance with BellSouth’s Products and Services Interval Guide available at the website at <http://www.interconnection.bellsouth.com>.
- 2.4.5.4 BellSouth will provide New Phone access to Preordering Loop Makeup (LMU), in accordance with the terms of this Agreement. BellSouth shall bill and New Phone shall pay the rates for such services, as described in Exhibit B.
- 2.4.5.5 BellSouth shall test the data portion of the loop to ensure the continuity of the wiring for New Phone’s data.
- 2.4.6 Maintenance and Repair
 - 2.4.6.1 New Phone shall have access for repair and maintenance purposes, to any loop for which it has access to the High Frequency Spectrum. If New Phone is using a BellSouth owned splitter, New Phone may access the loop at the point where the combined voice and data signal exits the central office splitter via a bantam test jack. If New Phone provides its own splitter, it may test from the collocation space or the Termination Point.
 - 2.4.6.2 BellSouth will be responsible for repairing voice services and the physical line between the network interface device at the customer’s premises and the Termination Point. New Phone will be responsible for repairing data services. Each Party will be responsible for maintaining its own equipment.
 - 2.4.6.3 New Phone shall inform its end users to direct data problems to New Phone, unless both voice and data services are impaired, in which event the end users should call BellSouth.
 - 2.4.6.4 Once a Party has isolated a trouble to the other Party’s portion of the loop, the Party isolating the trouble shall notify the end user that the trouble is on the other Party’s portion of the Loop.
 - 2.4.6.5 Notwithstanding anything else to the contrary in this Agreement, when BellSouth receives a voice trouble and isolates the trouble to the physical collocation arrangement belonging to New Phone, BellSouth will notify New Phone. New Phone will provide no more than two (2) verbal connecting facility assignments (CFA) pair changes to BellSouth in an attempt to resolve the voice trouble. In the event a CFA pair change resolves the voice trouble, New Phone will provide BellSouth an LSR with the new CFA pair information within 24 hours. If the

owner of the collocation space fails to resolve the trouble by providing BellSouth with the verbal CFA pair changes, BellSouth may discontinue New Phone's access to the High Frequency Spectrum on such loop. BellSouth will not be responsible for any loss of data as a result of this action.

2.4.7 Line Splitting.

2.4.7.1 General

2.4.7.1.1 Line Splitting allows a provider of data services (a "Data LEC") and a provider of voice services (a "Voice CLEC") to deliver voice and data service to end users over the same loop. The Voice CLEC and Data LEC may be the same or different carriers. New Phone shall provide BellSouth with a signed Letter of Authorization ("LOA") between it and the Data LEC or Voice CLEC with which it desires to provision Line Splitting services.

2.4.7.1.2 The splitter may be provided by the Data LEC, Voice CLEC or BellSouth. When New Phone or its authorized agent owns the splitter, Line Splitting requires the following: a non-designed analog loop from the serving wire center to the network interface device (NID) at the end user's location; a collocation cross connection connecting the loop to the collocation space; a second collocation cross connection from the collocation space connected to a voice port; and a splitter. The loop and port cannot be a loop and port combination (i.e. UNE-P), but must be individual stand-alone network elements. When BellSouth owns the splitter, Line Splitting requires the following: a non designed analog loop from the serving wire center to the network interface device (NID) at the end user's location with CFA and splitter port assignments, and a collocation cross connection from the collocation space connected to a voice port.

2.4.7.1.3 An unloaded 2-wire copper loop must serve the end user. The meet point for the Voice CLEC and the Data LEC is the point of termination on the MDF for the Data LEC's cable and pairs.

2.4.7.1.4 End Users currently receiving voice service from a Voice CLEC through a UNE platform (UNE-P) may be converted to Line Splitting arrangements by New Phone or its authorized agent ordering Line Splitting Service. If the CLEC wishes to provide the splitter, the UNE-P arrangement will be converted to a stand-alone UNE loop, a UNE port and two collocation cross connects. If BellSouth owns the splitter, the UNE-P arrangement will be converted to a stand-alone UNE loop, port, and one collocation cross connection.

- 2.4.7.1.5 When end users using High Frequency Spectrum CO Based line sharing service convert to Line Splitting, BellSouth will discontinue billing for the upper spectrum. BellSouth will continue to bill the Data LEC for all associated splitter charges if the Data LEC continues to use a BellSouth splitter. It is the responsibility of New Phone or its authorized agent to determine if the loop is compatible for Line Splitting Service. New Phone or its authorized agent may use the existing loop unless it is not compatible with the Data LEC's data service and New Phone or its authorized agent submits an LSR to BellSouth to change the loop.
- 2.4.7.1.6 The foregoing procedures are applicable to migration to Line Splitting Service from a UNE-P arrangement. Where a UNE-P arrangement does not already exist, BellSouth will work cooperatively with CLECs to develop methods and procedures to develop a process whereby a Voice CLEC and a Data LEC may provide services over the same loop.
- 2.4.8 Ordering
- 2.4.8.1 New Phone shall use BellSouth's Line Splitter Ordering Document ("LSOD") to order splitters from BellSouth and to activate and deactivate DS0 Collocation Connecting Facility Assignments (CFA) for use with Line Splitting.
- 2.4.8.2 BellSouth shall provide New Phone the Local Service Request ("LSR") format to be used when ordering Line Splitting service.
- 2.4.8.3 BellSouth will provision Line Splitting service in compliance with BellSouth's Products and Services Interval Guide available at the website at <http://www.interconnection.bellsouth.com>.
- 2.4.8.4 BellSouth will provide New Phone access to Preordering Loop Makeup (LMU) in accordance with the terms of this Agreement. BellSouth shall bill and New Phone shall pay the rates for such services as described in Exhibit B.
- 2.4.8.5 BellSouth will provide loop modification to New Phone on an existing loop in accordance with procedures developed in the Line Sharing Collaborative. High Frequency Spectrum (CO Based) Unbundled Loop Modification is a separate distinct service from Unbundled Loop Modification set forth in Section 2.5 of this Attachment. Procedures for High Frequency Spectrum (CO Based) Unbundled Loop Modification may be found on the web at: <HTTP://www.interconnection.bellsouth.com/html/unes.html>. Nonrecurring rates for this UNE offering may be found in Exhibit B of this Attachment.

- 2.4.9 Maintenance
- 2.4.9.1 BellSouth will be responsible for repairing voice services and the physical line between the network interface device at the customer's premises and the Termination Point. New Phone will be responsible for repairing data services. Each Party will be responsible for maintaining its own equipment.
- 2.4.9.2 New Phone shall inform its end users to direct data problems to New Phone, unless both voice and data services are impaired, in which event the end users should call BellSouth.
- 2.4.9.3 Once a Party has isolated a trouble to the other Party's portion of the loop, the Party isolating the trouble shall notify the end user that the trouble is on the other Party's portion of the Loop.
- 2.4.9.4 When BellSouth receives a voice trouble and isolates the trouble to the physical collocation arrangement belonging to owner of the collocation space, BellSouth will notify the owner of the collocation space. The owner of the collocation space will provide no more than two (2) verbal CFA pair changes to BellSouth in an attempt to resolve the voice trouble. In the event the CFA pair is changed, the owner of the collocation space will provide BellSouth an LSR with the new CFA pair information within 24 hours. If the owner of the collocation space fails to resolve the trouble by providing BellSouth with the verbal CFA pair changes, BellSouth may discontinue the owner of the collocation space access to the High Frequency Spectrum on such loop.
- 2.4.9.5 If New Phone is not the data provider, New Phone shall indemnify, defend and hold harmless BellSouth from and against any claims, losses, actions, causes of action, suits, demands, damages, injury, and costs including reasonable attorney fees which arise out of actions related to the data provider.
- 2.4.10 Remote Site High Frequency Spectrum
- 2.4.10.1 Remote Site Line Sharing is being developed by the Line Sharing Collaborative, as described on the BellSouth website at www.interconnection.BellSouth.com. Processes, rates, terms, or conditions for ordering or provisioning of this product have not been finalized. BellSouth and New Phone shall work within the Line Sharing Collaborative to develop the processes, terms, and conditions required to implement Remote Site Line Sharing. Upon finalization of the appropriate and required processes, rates, terms, and conditions, the Parties shall amend the Agreement to incorporate those processes, rates, terms, and conditions.
- 2.5 Unbundled Loop Modifications (Loop Conditioning)

- 2.5.1 Subject to applicable and effective FCC rules and orders, BellSouth shall condition loops, as requested by New Phone, whether or not BellSouth offers advanced services to the End User on that loop.
- 2.5.2 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, load coils, low pass filters, and range extenders, and repeaters
- 2.5.3 BellSouth shall recover the cost of line conditioning requested by New Phone 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 51.507 (e). Until such time as charges for loop conditioning have been approved by the Commission, New Phone shall pay to BellSouth interim cost-based charges as set forth in this Attachment.

3. Loop Provisioning Involving Integrated Digital Loop Carriers

- 3.1 Where New Phone has requested an Unbundled Loop and BellSouth uses Integrated Digital Loop Carrier (IDLC) systems to provide the local service to the end user and BellSouth has a suitable alternate facility available, BellSouth will make such alternative facilities available to New Phone. If a suitable alternative facility is not available, then to the extent it is technically feasible, BellSouth will make alternative arrangements available to New Phone (e.g. hairpinning).
- 3.2 BellSouth will select one of the following arrangements:
1. Roll the circuit(s) from the IDLC to any spare copper that exists to the customer premises.
 2. Roll the circuit(s) from the IDLC to an existing DLC that is not integrated.
 3. If capacity exists, provide "side-door" porting through the switch.
 4. If capacity exists, provide "DACS-door" porting (if the IDLC routes through a DACS prior to integration into the switch).
- 3.3 Arrangements 3 and 4 above require the use of a designed circuit. Therefore, non-designed loops such as the SL1 voice grade and UCL-ND may not be ordered in these cases.
- 3.4 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. New Phone will then have the option of paying the one-time SC rates to place the loop.

4. Network Interface Device

4.1 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.

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

4.2 Access to Network Interface Device (NID)

4.2.1 Due to the wide variety of NIDs utilized by BellSouth (based on subscriber size and environmental considerations), New Phone may access the on-premises wiring by any of the following means: BellSouth shall allow New Phone 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. New Phone agrees to install compatible protectors and test jacks and to maintain the protection system and equipment and to indemnify BellSouth pursuant to Section 9.4 of the General Terms and Conditions of this Agreement.

4.2.2 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

4.2.3 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

4.2.4 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., New Phone, its agent, the building owner or the subscriber). Such charges will be billed to the requesting Party.

- 4.2.5 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 re-grounding 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.
- 4.2.6 In no case shall either Party remove or disconnect ground wires from BellSouth's NIDs, enclosures, or protectors.
- 4.2.7 In no case shall either Party remove or disconnect NID modules, protectors, or terminals from BellSouth's NID enclosures.
- 4.2.8 Due to the wide variety of NID enclosures and outside plant environments BellSouth will work with New Phone to develop specific procedures to establish the most effective means of implementing this Section.

4.3 Technical Requirements

- 4.3.1 The NID shall provide an accessible point of interconnection and shall maintain a connection to ground.
- 4.3.2 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 New Phone's NID, consistent with the NID's function at the Effective Date of this Agreement.
- 4.3.3 Where a BellSouth NID exists, it is provided in its "as is" condition. If such NID is not functioning properly, BellSouth will repair or replace it at BellSouth's expense.
- 4.3.4 When New Phone deploys its own local loops with respect to multiple-line termination devices, New Phone shall Order the quantity of NIDs connections that it requires within such device.

4.4 Interface Requirements

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

5. Unbundled Loop Concentration (ULC) System

- 5.1 BellSouth will provide to New Phone 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.
- 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 New Phone at New Phone'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.

6. Sub-loop Elements

- 6.1 Where facilities permit, BellSouth shall offer access to its Unbundled Sub-Loop (USL) and Unbundled Sub-loop Concentration (USLC) System.
- 6.2 Unbundled Sub-Loop Distribution
- 6.2.1 The unbundled sub-loop distribution facility is a dedicated transmission facility that BellSouth provides from an end user'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. The unbundled sub-loop distribution media is a copper twisted pair that can be provisioned as a 2 Wire or 4 Wire facility. BellSouth will make the following available sub-loop distribution offerings where facilities permit:
- 6.2.1.1 Unbundled Sub-Loop Distribution – Voice Grade
- 6.2.1.2 Unbundled Copper Sub-Loop
- 6.2.1.3 Unbundled Sub-Loop Distribution – Intrabuilding Network Cable (aka riser cable)
- 6.2.2 Unbundled Sub-Loop Distribution – Voice Grade (USLD-VG) is a sub-loop facility from the cross-box in the field up to and including the point of demarcation, at the end user's premises and may have load coils.
- 6.2.3 Unbundled Copper Sub-Loop (UCSL) is a copper facility of any length provided from the cross-box in the field up to and including the end-user's point of

demarcation. If available, this facility will not have any intervening equipment such as load coils between the end-user and the cross-box.

- 6.2.4 If New Phone requests a UCSL and it is not available, New Phone may request the Sub-Loop facility be modified pursuant to the ULM process request to remove load coils and/or bridged taps. If load coils and/or bridged taps are removed, the facility will be classified as a UCSL.
- 6.2.5 Unbundled Sub-Loop Distribution – Intrabuilding Network Cable (USLD-INC) is the distribution facility inside a building or between buildings on the same continuous property which is not separated by a public street or road. USLD-INC includes the facility from the cross-connect device in the building equipment room up to and including the point of demarcation, at the end user's premises.
- 6.2.6 BellSouth will install a cross connect panel in the building equipment room for the purpose of accessing USLD-INC pairs from a building equipment room. The cross-connect panel will function as a single point of interconnection (SPOI) for USLD-INC and will be accessible by multiple carriers as space permits. BellSouth will place cross-connect blocks in 25-pair increments for New Phone's use on this cross-connect panel. New Phone will be responsible for connecting its facilities to the 25-pair cross-connect block(s).
- 6.2.7 Unbundled Sub-Loop distribution facilities shall support functions associated with provisioning, maintenance and testing of the Unbundled Sub-Loop. For access to Voice Grade USLD and UCSL, New Phone shall install a cable to the BellSouth cross-box pursuant to the terms and conditions for physical collocation for remote sites set forth in this Agreement. This cable would be connected by a BellSouth technician within the BellSouth cross-box during the set-up process. New Phone's cable pairs can then be connected to BellSouth's USL within the BellSouth cross-box by the BellSouth technician.
- 6.2.8 Through the Service Inquiry (SI) process, BellSouth will determine whether access to Unbundled Sub-Loops at the location requested by New Phone is technically feasible and whether sufficient capacity exists in the cross-box. If existing capacity is sufficient to meet New Phone's request, then BellSouth will perform the site set-up as described in Section 0. 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 Section 0) to accommodate New Phone's request for Unbundled Sub-Loops, New Phone may request BellSouth's Special Construction (SC) process to determine additional costs required to provision the Unbundled Sub-Loops. New Phone will have the option to proceed under the SC process to modify the BellSouth facilities.

- 6.2.9 The site set-up must be completed before New Phone can order sub-loop pairs. For the site set-up in a BellSouth cross-connect box in the field, BellSouth will perform the necessary work to splice New Phone's cable into the cross-connect box. For the site set-up inside a building equipment room, BellSouth will perform the necessary work to install the cross-connect panel and the connecting block(s) that will be used to provide access to the requested USLs.
- 6.2.10 Once the site set-up is complete, New Phone will request sub-loop pairs through submission of a Local Service Request (LSR) form to the Local Carrier Service Center (LCSC). Order Coordination is required with USL pair provisioning when New Phone requests reuse of an existing facility and is in addition to the USL pair rate. For expedite requests by New Phone for sub-loop pairs, expedite charges will apply for intervals less than 5 days.
- 6.2.11 Unbundled Sub-Loops will be provided in accordance with technical reference TR73600.
- 6.3 Unbundled Network Terminating Wire (UNTW)
- 6.3.1 Unbundled Network Terminating Wire (UNTW) is unshielded twisted copper wiring that is used to extend circuits from an intra-building network cable terminal or from a building entrance terminal to an individual customer's point of demarcation. It is the final portion of the Loop which, in multi-subscriber configurations, represents the point at which the network branches out to serve individual subscribers.
- 6.3.2 This element will be provided in Multi-Dwelling Units (MDUs) and/or Multi-Tenants Units (MTUs) where BellSouth owns wiring all the way to the end-users premises. BellSouth will not provide this element in those locations where the property owner provides its own wiring to the end-user's premises, where a third party owns the wiring to the end-user's premises or where the property owner will not allow BellSouth to place its facilities to the end user.
- 6.3.3 Requirements
- 6.3.4 On a multi-unit premises, upon request of the other Party ("Requesting Party"), the Party owning the network terminating wire will provide access to UNTW pairs on an Access Terminal that is suitable for use by multiple carriers at each Garden Terminal or Wiring Closet.
- 6.3.5 The Provisioning Party shall not be required to install new or additional NTW beyond existing NTW to provision the services of the Requesting Party.

- 6.3.6 Upon receipt of the UNTW Service Inquiry (SI) requesting access to the Provisioning Party's UNTW pairs at a multi-unit premises, representatives of both Parties will participate in a meeting at the site of the requested access. The purpose of the site visit will include discussion of the procedures for installation and location of the Access Terminals. By request of the Requesting Party, an Access Terminal will be installed either adjacent to each Provisioning Party's Garden Terminal or inside each Wiring Closet. Requesting Party will deliver and connect its central office facilities to the UNTW pairs within the Access Terminal. Requesting Party may access any available pair on an Access Terminal. A pair is available when a pair is not being utilized to provide service or where the end user has requested a change in its local service provider to the Requesting Party. Prior to connecting Requesting Party's service on a pair previously used by Provisioning Party, Requesting Party is responsible for ensuring the end-user is no longer using Provisioning Party's service or another CLEC's service before accessing UNTW pairs.
- 6.3.7 Access Terminal installation intervals will be established on an individual case basis.
- 6.3.8 Requesting Party is responsible for obtaining the property owner's permission for Provisioning Party to install an Access Terminal(s) on behalf of the Requesting Party. The submission of the SI by the Requesting Party will serve as certification by the Requesting Party that such permission has been obtained. If the property owner objects to Access Terminal installations that are in progress or subsequent to completion and demands removal of Access Terminals, Requesting Party will be responsible for costs associated with removing Access Terminals and restoring property to its original state prior to Access Terminals being installed.
- 6.3.9 The Requesting Party shall indemnify and hold harmless the Provisioning Party against any claims of any kind that may arise out of the Requesting Party's failure to obtain the property owner's permission. Requesting Party will be billed for non-recurring and recurring charges for accessing UNTW pairs at the time the Requesting Party activates the pair(s). The Requesting Party will notify the Provisioning Party each time it activates UNTW pairs using the LSR form.
- 6.3.10 Requesting Party will isolate and report troubles in the manner specified by the Provisioning Party. Requesting Party must tag the UNTW pair that requires repair. If Provisioning Party dispatches a technician on a reported trouble call and no UNTW trouble is found, Provisioning Party will charge Requesting Party for time spent on the dispatch and testing the UNTW pair(s).

- 6.3.11 If Requesting Party initiates the Access Terminal installation and the Requesting Party has not activated at least one pair on the Access Terminal installed pursuant to Requesting Party's request for an Access Terminal within 6 months of installation of the Access Terminal, Provisioning Party will bill Requesting Party a non-recurring charge equal to the actual cost of provisioning the Access Terminal.
- 6.3.12 If Provisioning Party determines that Requesting Party is using the UNTW pairs without reporting the activation of the pairs, the following charges shall apply:
- 6.3.13 If Requesting Party issued a LSR to disconnect an end-user from Provisioning Party in order to use a UNTW pair, Requesting Party will be billed for the use of the pair back to the disconnect order date.
- 6.3.14 If Requesting Party activated a UNTW pair on which Provisioning Party was not previously providing service, Requesting Party will be billed for the use of that pair back to the date the end-user began receiving service using that pair. Upon request, Requesting Party will provide copies of its billing record to substantiate such date. If Requesting Party fails to provide such records, then Provisioning Party will bill the Requesting Party back to the date of the Access Terminal installation.
- 6.4 Unbundled Sub-Loop Feeder
- 6.4.1 Unbundled Sub-Loop Feeder (USLF) provides connectivity between BellSouth's central office and cross-box (or other access point) that serves an end user location.
- 6.4.2 USLF utilized for voice traffic can be configured as 2-wire voice (USLF-2W/V) or 4-wire voice (USLF-4W/V).
- 6.4.3 USLF utilized for digital traffic can be configured as 2-wire ISDN (USLF-2W/I); 2-wire Copper (USLF-2W/C); 4-wire Copper (USLF-4W/C); 4-wire DS0 level loop (USLF-4W/D0); or 4-wire DS1 and ISDN (USLF-4W/DI).
- 6.4.4 USLF will provide access to both the equipment and the features in the BellSouth central office and BellSouth cross box necessary to provide a 2W or 4W communications pathway from the BellSouth central office to the BellSouth cross-box. This element will allow for the connection of New Phone's loop distribution elements onto BellSouth's feeder system.
- 6.4.5 Requirements

- 6.4.5.1 New Phone will extend a compatible cable to BellSouth's cross-box. BellSouth will connect the cable to a panel inside the BellSouth cross-box to the requested level of feeder element. In those cases when there is no room in the BellSouth cross-box to accommodate the additional cross-connect panels mentioned above, BellSouth will utilize its Special Construction process to determine the costs to provide the sub-loop feeder element to New Phone. New Phone will then have the option of paying the special construction charges or canceling the order.
- 6.4.5.2 USLF will be a designed circuit and BellSouth will provide a Design Layout Record (DLR) for this element.
- 6.4.5.3 BellSouth will provide USLF elements in accordance with applicable industry standards for these types of facilities. Where industry standards do not exist, BellSouth's TR73600 will be used to determine performance parameters.
- 6.4.5.4 Unbundled Sub-Loop Feeder – (USLF DS3 and above)
- 6.4.5.5 USLF DS3 and above provides connectivity between a BellSouth Serving Wire Center (SWC) and the Remote Terminal (RT) associated with that SWC that serves an end user location.
- 6.4.5.6 The sub-loop feeder is intended to be utilized for voice traffic and digital traffic. It can be configured at DS3, STS-1, OC-3, OC-12, or OC-48 transmission capacities.
- 6.4.5.7 The OC-48 Sub-Loop Feeder will consist of four (4) OC12 interfaces.
- 6.4.5.8 Both 2-fiber and 4-fiber-protect applications will be supported for OC-3 level and higher.
- 6.4.5.9 Requirements
 - 6.4.5.9.1 Access in the SWC and RT will be via a Collocation cross-connect.
 - 6.4.5.9.2 USLF DS3 and above will be a designed circuit. BellSouth will provide a Design Layout Record (DLR) for this network element.
- 6.4.6 Rates. Rates for these services are as set forth in Exhibit B of this Attachment. Mileage is based on airline miles.
- 6.4.7 BellSouth will provide USLF DS3 and above elements in accordance with applicable industry standards.

7. Local Switching

- 7.1 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 7.1.2 to New Phone for the provision of a telecommunications service. BellSouth shall provide non-discriminatory access to packet switching capability on an unbundled basis to New Phone for the provision of a telecommunications service only in the limited circumstance described below in Section 7.1.2.
- 7.1.1 Except as otherwise provided herein, BellSouth shall not impose any restrictions on New Phone 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.
- 7.1.2 Local Circuit Switching Capability, including Tandem Switching Capability
- 7.1.2.1 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.
- 7.1.3 Notwithstanding BellSouth's general duty to unbundle local circuit switching, BellSouth shall not be required to unbundle local circuit switching for New Phone when New Phone 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.

- 7.1.4 In the event that New Phone 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 located in Density Zone 1, as determined by NECA Tariff No. 4 as in effect on January 1, 1999, of the 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 MSAs, BellSouth's sole recourse shall be to charge New Phone a rate to be negotiated for use of the local circuit switching functionality for the affected facilities, or in the alternative, to charge New Phone the local services resale rate for use of all Combinations used to provide the affected facilities to New Phone.
- 7.1.5 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 New Phone. Any features that are not currently then capable at the time of the request, but are technically feasible through the switch can be requested through the BFR process.
- 7.1.6 BellSouth will provide to New Phone customized routing of calls: (i) to a requested directory assistance services platform; (ii) to an operator services platform pursuant to Section 11 of Attachment 2; (iii) for New Phone's PIC'ed toll traffic in a two (2) PIC environment to an alternative OS/DA platform designated by New Phone. New Phone customers may use the same dialing arrangements as BellSouth customers.
- 7.1.7 Remote Switching Module functionality is included in Switching Capability. The switching capabilities used will be based on the line side features they support.
- 7.1.8 Switching Capability will also be capable of routing (1) local, intraLATA, interLATA, and calls to international customer's preferred carrier; (2) call features (e.g., call forwarding) and (3) Centrex capabilities.
- 7.1.9 Where required to do so in order to comply with an effective Commission order, BellSouth will provide to New Phone 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. New Phone customers may use the same dialing arrangements as BellSouth customers, but obtain a New Phone branded service.

7.2 Technical Requirements

- 7.2.1 The requirements set forth in this Section apply to Local Switching, but not to the Data Switching function of Local Switching.
- 7.2.1.1 Local Switching shall be equal to or better than the requirements for Local Switching set forth in Telcordia (formerly BellCore)'s Local Switching Systems General Requirements (FR-NWT-000064).
- 7.2.1.2 When applicable, BellSouth shall route calls to the appropriate trunk or lines for call origination or termination.
- 7.2.1.3 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 New Phone will be made pursuant to the Bona Fide Request/ New Business Request Process as set forth in General Terms and Conditions.
- 7.2.1.4 BellSouth shall provide unbranded recorded announcements and call progress tones to alert callers of call progress and disposition.
- 7.2.1.5 BellSouth shall activate service for a New Phone customer or network interconnection on any of the Local Switching interfaces. This includes provisioning changes to change a customer from BellSouth's services to New Phone's services without loss of switch feature functionality as defined in this Agreement.
- 7.2.1.6 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.
- 7.2.1.7 BellSouth shall repair and restore any equipment or any other maintainable component that may adversely impact Local Switching.
- 7.2.1.8 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.
- 7.2.1.9 BellSouth shall perform manual call trace and permit customer originated call trace.
- 7.2.1.10 Special Services provided by BellSouth will include the following:

- 7.2.1.10.1 Telephone Service Prioritization;
- 7.2.1.10.2 Related services for handicapped;
- 7.2.1.10.3 Soft dial tone where required by law;
- 7.2.1.10.4 Any other service required by law; and
- 7.2.1.11 BellSouth shall provide Switching Service Point (SSP) capabilities and signaling software to interconnect the signaling links destined to the Signaling Transfer Point Switch (STP). These capabilities shall adhere to Telcordia (formerly BellCore) specifications - TCAP (GR-1432-CORE), ISUP (GR-905-CORE), Call Management (GR-1429-CORE), Switched Fractional DS1 (GR-1357-CORE), Toll Free Service (GR-1428-CORE), Calling Name (GR-1597-CORE), Line Information Database (GR-954-CORE), and Advanced Intelligent Network (GR-2863-CORE).
- 7.2.1.12 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.
- 7.2.1.13 BellSouth shall provide performance data regarding a customer line, traffic characteristics or other measurable elements to New Phone, upon a reasonable request from New Phone. CLEC will pay BellSouth for all costs incurred to provide such performance data through the Business Opportunity Request process.
- 7.2.1.14 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:
 - 7.2.1.14.1 Basic and primary rate ISDN;
 - 7.2.1.14.2 Residential features;
 - 7.2.1.14.3 Customer Local Area Signaling Services (CLASS/LASS);
 - 7.2.1.14.4 CENTREX (including equivalent administrative capabilities, such as customer accessible reconfiguration and detailed message recording); and
 - 7.2.1.14.5 Advanced intelligent network triggers supporting New Phone and BellSouth service applications.

BellSouth shall offer to New Phone 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:

- 7.2.1.14.5.1 Off-Hook Immediate
- 7.2.1.14.5.2 Off-Hook Delay
- 7.2.1.14.5.3 Termination Attempt
- 7.2.1.14.5.4 6/10 Public Office Dialing Plan
- 7.2.1.14.5.5 Feature Code Dialing
- 7.2.1.14.5.6 Customer Dialing Plan
- 7.2.1.14.6 When the following triggers are supported by BellSouth, BellSouth will make these triggers available to New Phone:
 - 7.2.1.14.6.1 Private EAMF Trunk
 - 7.2.1.14.6.2 Shared Interoffice Trunk (EAMF, SS7)
 - 7.2.1.14.6.3 N11
 - 7.2.1.14.6.4 Automatic Route Selection
 - 7.2.1.14.6.5 9XX Blocking and toll blocking
- 7.2.1.15 Where capacity exists, BellSouth shall assign each New Phone customer line the class of service designated by New Phone (e.g., using line class codes or other switch specific provisioning methods), and shall route directory assistance calls from New Phone customers to New Phone directory assistance operators at New Phone's option.
- 7.2.1.16 Where capacity exists, BellSouth shall assign each New Phone customer line the class of services designated by New Phone (e.g., using line class codes or other switch specific provisioning methods) and shall route operator calls from New Phone customers to New Phone operators at New Phone's option. For example, BellSouth may translate 0- and 0+ intraLATA traffic, and route the call through appropriate trunks to an New Phone Operator Services Position System (OSPS). Calls from Local Switching must pass the ANI-II digits unchanged.
- 7.2.1.17 Local Switching shall be offered in accordance with the requirements of the following technical references:
 - 7.2.1.17.1 Telcordia (formerly BellCore) GR-1298-CORE, AIN Switching System Generic Requirements, as implemented in BellSouth's switching equipment;

7.2.1.17.2 Telcordia (formerly BellCore) GR-1299-CORE, AIN Switch-Service Control Point (SCP)/Adjunct Interface Generic Requirements;

7.2.1.17.3 Telcordia (formerly BellCore) TR-NWT-001284, AIN 0.1 Switching System Generic Requirements;

7.2.1.17.4 Telcordia (formerly BellCore) SR-NWT-002247, AIN Release 1 Update.

7.2.2 Interface Requirements

7.2.2.1 BellSouth shall provide the following interfaces to loops:

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

7.2.2.3 Coin phone signaling;

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

7.2.2.5 Two-wire analog interface to PBX;

7.2.2.5.1 Four-wire analog interface to PBX;

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

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

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

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

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

7.2.2.11 SS7 Signaling Network or Multi-Frequency trunking if requested by New Phone;

7.2.2.12 Interface to New Phone operator services systems or Operator Services through appropriate trunk interconnections for the system; and

7.2.2.13 Interface to New Phone directory assistance services through the New Phone switched network or to Directory Assistance Services through the appropriate

trunk interconnections for the system; and 950 access or other New Phone required access to interexchange carriers as requested through appropriate trunk interfaces.

7.2.2.14. Packet Switching Capability

7.2.2.14.1 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:

- 7.2.2.14.1.1 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);
- 7.2.2.14.1.2 The ability to forward the voice channels, if present, to a circuit switch or multiple circuit switches;
- 7.2.2.14.3 The ability to extract data units from the data channels on the loops, and
- 7.2.2.14.4 The ability to combine data units from multiple loops onto one or more trunks connecting to a packet switch or packet switches.
- 7.2.2.14.5 BellSouth shall be required to provide non-discriminatory access to unbundled packet switching capability only where each of the following conditions are satisfied:
 - 7.2.2.14.5.1 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);
 - 7.2.2.14.5.2 There are no spare copper loops capable of supporting the xDSL services New Phone seeks to offer;
 - 7.2.2.14.5.3 BellSouth has not permitted New Phone to deploy a Digital Subscriber Line Access Multiplexer at the remote terminal, pedestal or environmentally controlled vault or other interconnection point, nor has the New Phone obtained a virtual collocation

arrangement at these Sub-Loop interconnection points as defined by 47 C.F.R. § 51.319 (b); and

- 7.2.2.14.5.4 BellSouth has deployed packet switching capability for its own use.
- 7.2.2.14.5.5 If there is a dispute as to whether BellSouth must provide Packet Switching , such dispute will be resolved according to the dispute resolution process set forth in Section 15 of the General Terms and Conditions of this Agreement, incorporated herein by this reference.

8. 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 New Phone for the provision of a telecommunications service.

- 8.1 Interoffice transmission facility network elements include:
 - 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 New Phone;
 - 2. Dark Fiber transport, defined as BellSouth's optical transmission facilities without attached multiplexing, aggregation or other electronics;
 - 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.

- 8.1.1 BellSouth shall:
 - 1. Provide New Phone 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;

2. Provide all technically feasible transmission facilities, features, functions, and capabilities that New Phone could use to provide telecommunications services;
3. Permit, to the extent technically feasible, New Phone to connect such interoffice facilities to equipment designated by New Phone, including but not limited to, New Phone's collocated facilities; and
4. Permit, to the extent technically feasible, New Phone to obtain the functionality provided by BellSouth's digital cross-connect systems in the same manner that BellSouth provides such functionality to interexchange carriers.

8.1.2 For the conversion of individual UNEs, and in accordance with the FCC's Supplemental Order Clarification, released June 2, 2000, in CC Docket No. 96-98, if applicable, New Phone shall be entitled to convert existing interoffice transmission facilities (i.e., special access) to the corresponding interoffice transport network element option.

8.2 Technical Requirements of Common (Shared) Transport

8.2.1 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.

8.2.2 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.

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

8.2.4 At a minimum, Common (Shared) Transport shall meet all of the requirements set forth in the following technical references (as applicable for the transport technology being used):

8.2.4.1 ANSI T1.101-1994, American National Standard for Telecommunications - Synchronization Interface Standard Performance and Availability;

- 8.2.4.2 ANSI T1.102-1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces;
- 8.2.4.3 ANSI T1.102.01-199x, American National Standard for Telecommunications - Digital Hierarchy - VT1.5;
- 8.2.4.4 ANSI T1.105-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats;
- 8.2.4.5 ANSI T1.105.01-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Automatic Protection Switching;
- 8.2.4.6 ANSI T1.105.02-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Payload Mappings;
- 8.2.4.7 ANSI T1.105.03-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Jitter at Network Interfaces;
- 8.2.4.8 ANSI T1.105.03a-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET): Jitter at Network Interfaces - DS1 Supplement;
- 8.2.4.9 ANSI T1.105.05-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Tandem Connection;
- 8.2.4.10 ANSI T1.105.06-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Physical Layer Specifications;
- 8.2.4.11 ANSI T1.105.07-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Sub STS-1 Interface Rates and Formats;
- 8.2.4.12 ANSI T1.105.09-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Network Element Timing and Synchronization;
- 8.2.4.13 ANSI T1.106-1988, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (Single Mode);
- 8.2.4.14 ANSI T1.107-1988, American National Standard for Telecommunications - Digital Hierarchy - Formats Specifications;

- 8.2.4.15 ANSI T1.107a-1990 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications (DS3 Format Applications);
- 8.2.4.16 ANSI T1.107b-1991 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications;
- 8.2.4.17 ANSI T1.117-1991, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (SONET) (Single Mode - Short Reach);
- 8.2.4.18 ANSI T1.403-1989, Carrier to Customer Installation, DS1 Metallic Interface Specification;
- 8.2.4.19 ANSI T1.404-1994, Network-to-Customer Installation - DS3 Metallic Interface Specification;
- 8.2.4.20 ITU Recommendation G.707, Network node interface for the synchronous digital hierarchy (SDH);
- 8.2.4.21 ITU Recommendation G.704, Synchronous frame structures used at 1544, 6312, 2048, 8488 and 44736 kbps hierarchical levels;
- 8.2.4.22 Telcordia (formerly BellCore) FR-440 and TR-NWT-000499, Transport Systems Generic Requirements (TSGR): Common Requirements;
- 8.2.4.23 Telcordia (formerly BellCore) GR-820-CORE, Generic Transmission Surveillance: DS1 & DS3 Performance;
- 8.2.4.24 Telcordia (formerly BellCore) GR-253-CORE, Synchronous Optical Network Systems (SONET); Common Generic Criteria;
- 8.2.4.25 Telcordia (formerly BellCore) TR-NWT 000507, Transmission, Section 7, Issue 5 (Telcordia (formerly BellCore), December 1993). (A module of LSSGR, FR-NWT-000064.);
- 8.2.4.26 Telcordia (formerly BellCore) TR-NWT-000776, Network Interface Description for ISDN Customer Access;
- 8.2.4.27 Telcordia (formerly BellCore) TR-INS-000342, High-Capacity Digital Special Access Service-Transmission Parameter Limits and Interface Combinations, Issue 1 February 1991;

8.2.4.28 Telcordia (formerly BellCore) ST-TEC 000052, Telecommunications Transmission Engineering Textbook, Volume 2: Facilities, Third Edition, Issue I May 1989;

8.2.4.29 Telcordia (formerly BellCore) ST-TEC-000051, Telecommunications Transmission Engineering Textbook Volume 1: Principles, Third Edition. Issue 1 August 1987.

8.3 Dedicated Transport

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

8.3.1.1 As capacity on a shared facility.

8.3.1.2 As a circuit (e.g., DS0, DS1 or DS3) dedicated to New Phone .

8.3.2 When Dedicated Transport is provided as a system it shall include:

8.3.2.1 Transmission equipment such as multiplexers, line terminating equipment, amplifiers, and regenerators;

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

8.3.3 Unbundled Local Channel

8.3.3.1 The Unbundled Local Channel is the dedicated transmission path between New Phone's Point of Presence and the BellSouth Serving Wire Center.

8.3.3.2 BellSouth currently offers Unbundled Local Channels for switched traffic. Rates for these elements are listed in this Attachment. For those states that do not contain rates in this Attachment for DS1 and DS3 switched Local Channels, 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.

8.3.3.3 BellSouth currently offers Unbundled Local Channels for non-switched traffic at DS1 and DS3 levels at rates as set forth in Exhibit C to this Attachment.

8.3.4 Technical Requirements

This Section sets forth technical requirements for all Dedicated Transport.

- 8.3.4.1 When BellSouth provides Dedicated Transport as a circuit or a system, the entire designated transmission circuit or system (*e.g.*, DS0, DS1, DS3) shall be dedicated to New Phone designated traffic.
- 8.3.4.2 BellSouth shall offer Dedicated Transport in all technologies that become available including, but not limited to, DS1 and DS3 transport systems, SONET (or SDH) Bi-directional Line Switched Rings, SONET (or SDH) Unidirectional Path Switched Rings, and SONET (or SDH) point-to-point transport systems (including linear add-drop systems), at all available transmission bit rates. While SONET Ring facilities are not available in every application, they are typically available in the major metropolitan areas.
- 8.3.4.3 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.
- 8.3.4.4 Where applicable, for DS3 circuits, 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.
- 8.3.4.5 BellSouth shall offer the following interface transmission rates for Dedicated Transport:
 - 8.3.4.5.1 DS0 Equivalent;
 - 8.3.4.5.2 DS1 (Extended SuperFrame - ESF and D4 channel bank shall be provided);
 - 8.3.4.5.3 DS3 where applicable (M13 multiplexer shall be provided);
 - 8.3.4.5.4 SDH Standard interface rates in accordance with International Telecommunications Union (ITU) Recommendation G.707 and Plesiochronous Digital Hierarchy (PDH) rates per ITU Recommendation G.704.
- 8.3.4.6 When Dedicated Transport is provided as a system, BellSouth shall design the system according to our network infrastructure to allow for the termination points specified by New Phone.
- 8.3.5 At a minimum, Dedicated Transport shall meet each of the requirements set forth in the following technical references:
 - 8.3.5.1 ANSI T1.231-1993 -American National Standard for Telecommunications - Digital Hierarchy - Layer 1 In-Service Digital Transmission performance monitoring.

- 8.3.5.1.1 ANSI T1.102-1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces;
- 8.3.5.1.2 ANSI T1.106-1988, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (Single Mode);
- 8.3.5.1.3 ANSI T1.107-1988, American National Standard for Telecommunications - Digital Hierarchy - Formats Specifications;
- 8.3.5.1.4 ANSI T1.107a-1990 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications (DS3 Format Applications);
- 8.3.5.1.5 ANSI T1.107b-1991 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications;
- 8.3.5.1.6 Telcordia (formerly BellCore) FR-440 and TR-NWT-000499, Transport Systems Generic Requirements (TSGR): Common Requirements;
- 8.3.5.1.7 Telcordia (formerly BellCore) GR-820-CORE, Generic Transmission Surveillance: DS1 & DS3 Performance;
- 8.3.5.1.8 Telcordia (formerly BellCore) TR-NWT 000507, Transmission, Section 7, Issue 5 (Telcordia (formerly BellCore), December 1993). (A module of LSSGR, FR-NWT-000064.);
- 8.3.5.1.9 Telcordia (formerly BellCore) TR-INS-000342, High-Capacity Digital Special Access Service-Transmission Parameter Limits and Interface Combinations, Issue 1 February 1991;
- 8.3.5.1.10 Telcordia (formerly BellCore) ST-TEC 000052, Telecommunications Transmission Engineering Textbook, Volume 2: Facilities, Third Edition, Issue I May 1989;
- 8.3.5.1.11 Telcordia (formerly BellCore) ST-TEC-000051, Telecommunications Transmission Engineering Textbook Volume 1: Principles, Third Edition. Issue 1 August 1987.

9. Tandem Switching

9.1 Definition

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

9.2 Technical Requirements

- 9.2.1 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:
 - 9.2.1.1 Tandem Switching shall provide signaling to establish a tandem connection;
 - 9.2.1.2 Tandem Switching will provide screening as jointly agreed to by New Phone and BellSouth;
 - 9.2.1.3 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;
 - 9.2.1.4 Tandem Switching shall provide access to Toll Free number portability database as designated by New Phone;
 - 9.2.1.5 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));
 - 9.2.1.6 Tandem Switching shall provide connectivity to PSAPs where 911 solutions are deployed and the tandem is used for 911; and
 - 9.2.1.7 Where appropriate, Tandem Switching shall provide connectivity to transit traffic to and from other carriers.
- 9.2.2 Tandem Switching shall accept connections (including the necessary signaling and trunking interconnections) between end offices, other tandems, IXCs, ICOs, CAPs and CLEC switches.
- 9.2.3 Tandem Switching shall provide local tandem 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).
- 9.2.4 Tandem Switching shall preserve CLASS/LASS features and Caller ID as traffic is processed.

- 9.2.5 Tandem Switching shall record billable events and send them to the area billing centers designated by New Phone. Tandem Switching will provide recording of all billable events as jointly agreed to by New Phone and BellSouth.
- 9.2.6 Upon a reasonable request from New Phone, 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 New Phone.
- 9.2.7 BellSouth shall maintain New Phone's trunks and interconnections associated with Tandem Switching at least at parity to its own trunks and interconnections.
- 9.2.8 BellSouth shall control congestion points and network abnormalities. All traffic will be restricted in a non discriminatory manner.
- 9.2.9 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 switching network shall be mutually agreed to by New Phone and BellSouth.
- 9.2.10 Tandem Switching shall process originating toll-free traffic received from New Phone local switch.
- 9.2.11 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.
- 9.3 Interface Requirements
- 9.3.1 Tandem Switching shall provide interconnection to the E911 PSAP where the underlying Tandem is acting as the E911 Tandem.
- 9.3.2 Tandem Switching shall interconnect, with direct trunks, to all carriers with which BellSouth interconnects.
- 9.3.3 BellSouth shall provide all signaling necessary to provide Tandem Switching with no loss of feature functionality.
- 9.3.4 Tandem Switching shall interconnect with New Phone's switch, using two-way trunks, for traffic that is transiting via BellSouth network to interLATA or intraLATA carriers. At New Phone's request, Tandem Switching shall record and keep records of traffic for billing.

- 9.3.5 Tandem Switching shall provide an alternate final routing pattern for New Phone traffic overflowing from direct end office high usage trunk groups.
- 9.4 Tandem Switching shall meet or exceed (i.e., be more favorable to New Phone) each of the requirements for Tandem Switching set forth in the following technical references:
 - 9.4.1 Bell Communications Research TR-TSY-000540 Issue 2R2, Tandem Supplement, 6/1/90;
 - 9.4.2 GR-905-CORE covering CCSNIS;
 - 9.4.3 GR-1429-CORE for call management features; and
 - 9.4.4 GR-2863-CORE and Telcordia (formerly BellCore) GR-2902-CORE covering CCS AIN interconnection

10. Unbundled Network Element Combinations

- 10.1 Unbundled Network Element Combinations shall include: 1) Enhanced Extended Links (EELs); 2) Other Non-Switched Transport Combinations; 3) UNE Loop/Special Access Combinations; and 4) UNE Loop/Port Combinations.

- 10.1.2 For purposes of this Section, 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.

10.2 Enhanced Extended Links (EELs)

- 10.2.1 Where facilities permit and where necessary to comply with an effective FCC and/or State Commission order, or as otherwise mutually agreed by the Parties, BellSouth shall offer access to loop and transport combinations, also known as the Enhanced Extended Link (“EEL”) as defined in Section 10.2.2 below.
- 10.2.2 Subject to Section 10.2.4 below, BellSouth will provide access to the EEL in the combinations set forth in Section 10.2.5 following. New Phone shall provide to BellSouth a letter certifying that New Phone is providing a significant amount of

local exchange service (as described in Sections 10.2.6.2, 10.2.6.3, 10.2.6.4 or 10.2.6.5) over such combinations. This offering is intended to provide connectivity from an end user's location through that end user's SWC to New Phone's POP serving wire center. The circuit must be connected to New Phone's switch for the purpose of provisioning telephone exchange service to New Phone's end-user customers. The EEL will be connected to New Phone's facilities in New Phone's collocation space at the POP SWC, or New Phone may purchase BellSouth's access facilities between New Phone's POP and New Phone's collocation space at the POP SWC.

- 10.2.3 When ordering EEL combinations, New Phone shall provide to BellSouth a letter certifying that New Phone will provide a significant amount of local exchange service over the requested combination, as described in Section 10.2.6 below, and shall indicate under what local usage option New Phone seeks to qualify. New Phone shall be deemed to be providing a significant amount of local exchange service if one of the three (3) options set forth in Sections 10.2.6.2 through 10.2.6.4 is met. BellSouth shall have the right to audit New Phone's records to verify that New Phone is meeting the applicable local usage requirements. Such audit shall comply with the terms of Section 10.2.6.6 of this Attachment.
- 10.2.4 BellSouth shall provide EEL combinations to New Phone in Georgia, Kentucky, Louisiana, Mississippi and Tennessee regardless of whether or not such EELs are Currently Combined. In all other states, BellSouth shall make available to New Phone those EEL combinations described in Section 10.2.5 below only to the extent such combinations are Currently Combined. Furthermore, BellSouth will make available new EEL combinations to New Phone in density Zone 1, as defined in 47 CFR 69.123 as of January 1, 1999, in the 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, MSAs. Except as stated above, EELs will be provided to New Phone only to the extent such network elements are Currently Combined.
- 10.2.5 EEL Combinations
- 10.2.5.1 DS1 Interoffice Channel + DS1 Channelization + 2-wire VG Local Loop
- 10.2.5.2 DS1 Interoffice Channel + DS1 Channelization + 4-wire VG Local Loop
- 10.2.5.3 DS1 Interoffice Channel + DS1 Channelization + 2-wire ISDN Local Loop
- 10.2.5.4 DS1 Interoffice Channel + DS1 Channelization + 4-wire 56 kbps Local Loop

10.2.5.5 DS1 Interoffice Channel + DS1 Channelization + 4-wire 64 kbps Local Loop

10.2.5.6 DS1 Interoffice Channel + DS1 Local Loop

10.2.5.7 DS3 Interoffice Channel + DS3 Local Loop

10.2.5.8 STS-1 Interoffice Channel + STS-1 Local Loop

10.2.5.9 DS3 Interoffice Channel + DS3 Channelization + DS1 Local Loop

10.2.5.10 STS-1 Interoffice Channel + DS3 Channelization + DS1 Local Loop

10.2.5.11 2-wire VG Interoffice Channel + 2-wire VG Local Loop

10.2.5.12 4wire VG Interoffice Channel + 4-wire VG Local Loop

10.2.5.13 4-wire 56 kbps Interoffice Channel + 4-wire 56 kbps Local Loop

10.2.5.14 4-wire 64 kbps Interoffice Channel + 4-wire 64 kbps Local Loop

10.2.5.15 To order EELs New Phone must meet the requirements in Section 0 or 0.

10.2.6 Special Access Service Conversions

10.2.6.1 New Phone may not convert special access services to combinations of loop and transport network elements, whether or not New Phone self-provides its entrance facilities (or obtains entrance facilities from a third party), unless New Phone 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 New Phone requests to convert any special access services to combinations of loop and transport network elements at UNE prices, New Phone shall provide to BellSouth a letter certifying that New Phone is providing a significant amount of local exchange service (as described in this Section) over such combinations. The certification letter shall also indicate under what local usage option New Phone seeks to qualify for conversion of special access circuits. New Phone shall be deemed to be providing a significant amount of local exchange service over such combinations if one of the following options is met:

10.2.6.2 New Phone certifies that it is the exclusive provider of an end user's local exchange service. The loop-transport combinations must terminate at New Phone's collocation arrangement in at least one BellSouth central office. This option does not allow loop-transport combinations to be connected to BellSouth's tariffed services. Under this option, New Phone is the end user's only local service provider, and thus, is providing more than a significant amount

of local exchange service. New Phone can then use the loop-transport combinations that serve the end user to carry any type of traffic, including using them to carry 100 percent interstate access traffic; or

- 10.2.6.3 New Phone certifies that it provides local exchange and exchange access service to the end user customer's premises and handles at least one third of the end user customer's local traffic measured as a percent of total end user customer local dialtone lines; and for DS1 circuits and above, at least 50 percent of the activated channels on the loop portion of the loop-transport combination have at least 5 percent local voice traffic individually, and the entire loop facility has at least 10 percent local voice traffic. When a loop-transport combination includes multiplexing, each of the individual DS1 circuits must meet these criteria. The loop-transport combination must terminate at New Phone's collocation arrangement in at least one BellSouth central office. This option does not allow loop-transport combinations to be connected to BellSouth tariffed services; or
- 10.2.6.4 New Phone certifies that at least 50 percent of the activated channels on a circuit are used to provide originating and terminating local dialtone service and at least 50 percent of the traffic on each of these local dialtone channels is local voice traffic, and that the entire loop facility has at least 33 percent local voice traffic. When a loop-transport combination includes multiplexing, each of the individual DS1 circuits must meet these criteria. This option does not allow loop-transport combinations to be connected to BellSouth's tariffed services. Under this option, collocation is not required. New Phone does not need to provide a defined portion of the end user's local service, but the active channels on any loop-transport combination, and the entire facility, must carry the amount of local exchange traffic specified in this option.
- 10.2.6.5 In addition, there may be extraordinary circumstances where New Phone is providing a significant amount of local exchange service, but does not qualify under any of the three options set forth in Section 10.2.6. In such case, New Phone may petition the FCC for a waiver of the local usage options set forth in the June 2, 2000 Order. If a waiver is granted, then upon New Phone's request the Parties shall amend this Agreement to the extent necessary to incorporate the terms of such waiver for such extraordinary circumstance.
- 10.2.6.6 BellSouth may at its sole discretion audit New Phone records in order to verify the type of traffic being transmitted over combinations of loop and transport network elements. The audit shall be conducted by a third party independent auditor, and New Phone shall be given thirty days written notice of scheduled audit. Such audit shall occur no more than one time in a calendar year, unless results of an audit find noncompliance with the significant amount of local exchange service requirement. In the event of noncompliance, New Phone shall

reimburse BellSouth for the cost of the audit. If, based on its audits, BellSouth concludes that New Phone 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 New Phone.

- 10.2.6.7 New Phone may convert special access circuits to combinations of loop and transport UNEs pursuant to the terms of this Section and subject to the termination provisions in the applicable special access tariffs, if any.
- 10.2.6.8 Rates
- 10.2.6.8.1 Georgia, Kentucky, Louisiana, Mississippi and Tennessee
- 10.2.6.8.2 The non-recurring and recurring rates for the EEL Combinations of network elements set forth in 5.3.4, whether Currently Combined or new, are as set forth in Exhibit B of this Attachment.
- 10.2.6.8.3 For combinations of loop and transport network elements not set forth in Section 10.2.5, 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.
- 10.2.6.8.4 To the extent that New Phone seeks to obtain other combinations of network elements that BellSouth ordinarily combines in its network which have not been specifically priced by the Commission when purchased in combined form, New Phone, at its option, can request that such rates be determined pursuant to the BFR/NBR process set forth in this Agreement.
- 10.2.6.8.5 All Other States
- 10.2.6.8.5.1 Subject to the preceding sections, for all other states, the non-recurring and recurring rates for the Currently Combined EEL combinations set forth in Section 10.2.5 and other Currently Combined network elements will be the sum of the recurring rates for the individual network elements plus a non recurring charge set forth in Exhibit B of this Attachment.
- 10.2.9 Multiplexing

- 10.2.9.1 Where multiplexing functionality is required in connection with loop and transport combinations, such multiplexing will be provided at the rates and on the terms set forth in this Agreement.
- 10.2.10 Other Non-Switched Combinations
- 10.2.10.1 In the states of Georgia, Kentucky, Louisiana, Mississippi and Tennessee, BellSouth shall make available to New Phone, in accordance with Section 10.2.10.2.1 below: (1) combinations of network elements other than EELs that are Currently Combined; and (2) combinations of network elements other than EELs that are not Currently Combined but that BellSouth ordinarily combines in its network. In all other states, BellSouth shall make available to New Phone, in accordance with Section 10.2.10.2.2 below, combinations of network elements other than EELs only to the extent such combinations are Currently Combined.
- 10.2.10.2 Rates
- 10.2.10.2.1 Georgia, Kentucky, Louisiana, Mississippi and Tennessee
- 10.2.10.2.1.1 The non-recurring and recurring rates for Other Network Element combinations, whether Currently Combined or new, are as set forth in Exhibit B of this Attachment.
- 10.2.10.2.1.2 For Other Network Element combinations 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 that make up the combination.
- 10.2.10.2.1.3 To the extent that New Phone seeks to obtain other combinations of network elements that BellSouth ordinarily combines in its network which have not been specifically priced by the Commission when purchased in combined form, New Phone, at its option, can request that such rates be determined pursuant to the BFR/NBR process set forth in this Agreement.
- 10.2.10.2.2 All Other States
- 10.2.10.2.2.1 For all other states, the non-recurring and recurring rates for the Other Network Element Combinations that are Currently Combined will be the sum of the recurring rates for the individual network elements plus a non-recurring charge set forth in Exhibit B of this Attachment.
- 10.2.11 UNE Loop/Special Access Combinations

10.2.11.1 BellSouth shall make available to New Phone a new combination of an unbundled loop and tariffed special access interoffice facilities. To the extent New Phone will require multiplexing functionality in connection with such combination, BellSouth will provide access to multiplexing within the central office pursuant to the terms, conditions and rates set forth in its Access Services Tariffs. The tariffed special access interoffice facilities and any associated tariffed services, including but not limited to multiplexing, shall not be eligible for conversion to UNEs as described in Section 10.2.6.

10.2.11.2 Rates

10.2.11.2.1 The non-recurring and recurring rates for UNE/Special Access Combinations will be the sum of the unbundled loop rates as set forth in Exhibit B and the interoffice transport rates and multiplexing rates as set forth in the Access Services Tariff.

10.3 UNE Port/Loop Combinations

10.3.1 Combinations of port and loop unbundled network elements along with switching and transport unbundled network elements provide local exchange service for the origination or termination of calls. Port/ loop combinations support the same local calling and feature requirements as described in the Unbundled Local Switching or Port section of this Attachment 2 and the ability to presubscribe to a primary carrier for intraLATA and/or to presubscribe to a primary carrier for interLATA toll service.

10.3.2 BellSouth shall make available UNE port/loop combinations, regardless of whether such combinations are Currently Combined, so long as such combinations are ordinarily combined in BellSouth's network.

10.3.2.1 Except as set forth in section 10.3.3 below, in Georgia, Kentucky, Louisiana, Mississippi and Tennessee, BellSouth shall provide UNE port/loop combinations that are ordinarily combined in BellSouth's network, regardless of whether such combinations are Currently Combined at the cost-based rates in Exhibit B.

10.3.2.2 In Alabama, Florida, North Carolina and South Carolina, BellSouth shall provide UNE port/loop combinations that are not Currently Combined but that are ordinarily combined in BellSouth's network at the market rates in Exhibit B.

10.3.2.3 In Alabama, Florida, North Carolina and South Carolina, BellSouth shall provide UNE port/loop combinations that are Currently Combined at the cost-based rates in Exhibit B.

- 10.3.3 BellSouth is not required to provide combinations of port and loop network elements on an unbundled basis in locations where, pursuant to FCC rules, BellSouth is not required to provide circuit switching as an unbundled network element.
- 10.3.3.1 BellSouth shall not be required to provide local circuit switching as an unbundled network element in density Zone 1, as defined in 47 CFR 69.123 as of January 1, 1999 of the 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, MSAs to New Phone if New Phone's customer has 4 or more DS0 equivalent lines.
- 10.3.3.2 Notwithstanding the foregoing, BellSouth shall provide combinations of port and loop network elements on an unbundled basis where, pursuant to FCC rules, BellSouth is not required to provide local circuit switching as an unbundled network element and shall do so at the market rates in Exhibit B.
- 10.3.9 Combination Offerings
 - 10.3.9.1 2-wire voice grade port, voice grade loop, 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.
 - 10.3.9.2 2-wire voice grade Coin port, voice grade loop, 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.
 - 10.3.9.3 2-wire voice grade DID port, voice grade loop, 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.
 - 10.3.9.4 2-wire CENTREX port, voice grade loop, 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.
 - 10.3.9.5 2-wire ISDN Basic Rate Interface, voice grade loop, 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.
 - 10.3.9.6 4-wire ISDN Primary Rate Interface, DS1 loop, 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.

- 10.3.9.7 4-wire DS1 Trunk port, DS1 Loop, 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.
- 10.3.9.8 4-wire DS1 Loop with normal serving wire center channelization interface, 2-wire voice grade ports (PBX), 2-wire DID ports, 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.

11. Operator Systems

BellSouth agrees to offer access to operator systems pursuant to the terms and conditions following and at the rates set forth in this Attachment.

11.1 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.

11.2 Operator Service

11.2.1 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.

11.2.2 Requirements

11.2.2.1 When New Phone requests BellSouth to provide Operator Services, the following requirements apply:

11.2.2.1.1 BellSouth shall complete 0+ and 0- dialed local calls.

11.2.2.1.2 BellSouth shall complete 0+ intraLATA toll calls.

11.2.2.1.3 BellSouth shall complete calls that are billed to New Phone end user's calling card that can be validated by BellSouth.

- 11.2.2.1.4 BellSouth shall complete person-to-person calls.
- 11.2.2.1.5 BellSouth shall complete collect calls.
- 11.2.2.1.6 BellSouth shall provide the capability for callers to bill to a third party and complete such calls.
- 11.2.2.1.7 BellSouth shall complete station-to-station calls.
- 11.2.2.1.8 BellSouth shall process emergency calls.
- 11.2.2.1.9 BellSouth shall process Busy Line Verify and Emergency Line Interrupt requests.
- 11.2.2.1.10 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.
- 11.2.2.1.11 BellSouth shall process operator-assisted directory assistance calls.
- 11.2.2.2 BellSouth shall adhere to equal access requirements, providing New Phone local end users the same IXC access as provided to BellSouth end users.
- 11.2.2.3 BellSouth shall exercise at least the same level of fraud control in providing Operator Service to New Phone that BellSouth provides for its own operator service.
- 11.2.2.4 BellSouth shall perform Billed Number Screening when handling Collect, Person-to-Person, and Billed-to-Third-Party calls.
- 11.2.2.5 BellSouth shall direct customer account and other similar inquiries to the customer service center designated by New Phone.
- 10.2.2.6 BellSouth shall provide a feed of customer call records in “EMI” format to New Phone in accordance with CLECODUF standards specified in Attachment 7.
- 11.2.3 Interface Requirements

With respect to Operator Services for calls that originate on local switching capability provided by or on behalf of New Phone, 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.
- 11.3 Directory Assistance Service
- 11.3.1 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.

11.3.2 Requirements

11.3.2.1 Directory Assistance Service shall provide up to two listing requests per call. If available and if requested by New Phone'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. In providing call completion service, and at such time as functionality is available in the BellSouth network, BellSouth shall route the call to New Phone's network for call completion. Rates for such functionality shall be established at the time such functionality becomes available. If not available, New Phone may request such requirement pursuant to the Bona Fide Request/New Business Process as set forth in General Terms and Conditions.

11.3.2.2 Directory Assistance Service Updates

11.3.2.2.1 BellSouth shall update end user listings changes daily. These changes include:

11.3.2.2.1.1 New end user connections: BellSouth will provide service to New Phone that is equal to the service it provides to itself and its end users;

11.3.2.2.1.2 End user disconnections: BellSouth will provide service to New Phone that is equal to the service it provides to itself and its end users; and

11.3.2.2.1.3 End user address changes: BellSouth will provide service to New Phone that is equal to the service it provides to itself and its end users;

11.3.2.3 These updates shall also be provided for non-listed and non-published numbers for use in emergencies.

11.4 Branding for Operator Call Processing and Directory Assistance

11.4.1 BellSouth's branding feature provides a definable announcement to New Phone end users using Directory Assistance (DA)/Operator Call Processing (OCP) prior to placing such end users in queue or connecting them to an available operator or automated operator system. This feature allows New Phone to have its calls custom branded with New Phone's name on whose behalf BellSouth is providing Directory Assistance and/or Operator Call Processing. Rates for the branding features are set forth in this Attachment.

- 11.4.2 BellSouth offers three (3) service levels of branding to New Phone when ordering BellSouth's Directory Assistance and Operator Call Processing.
- 11.4.2.1 Service Level 1 - BellSouth Branding
- 11.4.2.2 Service Level 2 - Unbranding
- 11.4.2.3 Service Level 3 - Custom Branding
- 11.4.3 Where New Phone resells BellSouth's services or purchases unbundled local switching from BellSouth, and utilizes a directory assistance provider and operator services provider other than BellSouth, BellSouth will route New Phone's end user calls to that provider through Selective Carrier Routing.
- 11.4.4 For Use with an Unbundled Port
- 11.4.4.1 Selective Call Routing using Line Class Codes (SCR-LCC) provides the capability for New Phone to have its OS/DA calls routed to BellSouth's OS/DA platform for BellSouth provided Custom Branded or Unbranded OS/DA or to its own or an alternate OS/DA platform for Self-Branded OS/DA. SCR-LCC is only available if line class code capacity is available in the requested BellSouth end office switches.
- 11.4.4.2 Custom Branding for Directory Assistance is not available for certain classes of service, including but not limited to Hotel/Motel services, WATS service, and certain PBX services.
- 11.4.4.3 Where available, New Phone specific and unique line class codes are programmed in each BellSouth end office switch where New Phone intends to serve end users with customized OS/DA branding. The line class codes specifically identify New Phone's end users so OS/DA calls can be routed over the appropriate trunk group to the requested OS/DA platform. Additional line class codes are required in each end office if the end office serves multiple NPAs (i.e., a unique LCC is required per NPA), and/or if the end office switch serves multiple rate areas and New Phone intends to provide New Phone -branded OS/DA to its end users in these multiple rate areas.
- 11.4.4.4 BellSouth Branding is the Default Service Level.
- 11.4.4.5 SCR-LCC supporting Custom Branding and Self Branding require New Phone to order dedicated trunking from each BellSouth end office identified by New Phone, either to the BellSouth Traffic Operator Position System (TOPS) for Custom Branding or to the New Phone Operator Service Provider for Self Branding. Separate trunk groups are required for Operator Services and for Directory Assistance. Rates for trunks are set forth in applicable BellSouth tariffs.

- 11.4.4.6 Unbranding - Unbranded Directory Assistance and/or Operator Call Processing calls ride common trunk groups provisioned by BellSouth from those end offices identified by New Phone to the BellSouth TOPS. These calls are routed to “No Announcement.”
- 11.4.4.7 The Rates for SCR-LCC are as set forth in this Attachment. There is a nonrecurring charge for the establishment of each Line Class Code in each BellSouth central office. Furthermore, for Unbranded and Custom Branded OS/DA provided by BellSouth Operator Services with unbundled ports and unbundled port/loop switch combinations, monthly recurring usage charges shall apply for the UNEs necessary to provide the service, such as end office and tandem switching and common transport. A flat rated end office switching charge shall apply to Self-Branded OS/DA when used in conjunction with unbundled ports and unbundled port/loop switch combinations.
- 11.4.4.8 In addition to the branding methods described in this Section, Unbranding and Custom Branding are also available for Directory Assistance, Operator Call Processing or both via Originating Line Number Screening (OLNS) software. When utilizing this method of Unbranding or Custom Branding, New Phone shall not be required to purchase dedicated trunking.
- 11.4.4.9 For BellSouth to provide Unbranding or Custom Branding via OLNS software for Operator Call Processing or for Directory Assistance, New Phone must have its Operating Company Number (“OCN(s)”) and telephone numbers reside in BellSouth’s LIDB; however, a BellSouth LIDB Storage Agreement is not required. To implement Unbranding and Custom Branding via OLNS software, New Phone must submit a manual order form which requires, among other things, New Phone’s OCN and a forecast for the traffic volume anticipated for each BellSouth TOPS during the peak busy hour. New Phone shall provide updates to such forecast on a quarterly basis and at any time such forecasted traffic volumes are expected to change significantly. Upon New Phone’s purchase of Unbranding or Custom Branding using OLNS software for any particular TOPS, all New Phone end users served by that TOPS will receive the Unbranded “no announcement” or the Custom Branded announcement.
- 11.4.4.10 Rates for Unbranding and Custom Branding via OLNS software for Directory Assistance and for Operator Call Processing are as set forth in this Attachment. Notwithstanding anything to the contrary in this Agreement, to the extent BellSouth is unable to bill New Phone applicable charges currently, BellSouth shall track such charges and will bill the same retroactively at such time as a billing process is implemented. In addition to the charges for Unbranding and Custom Branding via OLNS software, New Phone shall continue to pay BellSouth applicable labor and other charges for the use of BellSouth’s Directory Assistance

and Operator Call Processing platforms as set forth in this Attachment. Further, where New Phone is purchasing unbundled local switching from BellSouth, UNE usage charges for end office switching, tandem switching and transport, as applicable, shall continue to apply.

- 11.4.5 For Facilities Based Carriers
 - 11.4.5.1 All Service Levels require New Phone 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.
 - 11.4.5.2 Customized Branding includes charges for the recording of the branding announcement and the loading of the audio units in each TOPS Switch and Network Applications Vehicle (NAV) equipment for which New Phone requires service.
 - 11.4.5.3 Directory Assistance customized branding uses:
 - 11.4.5.3.1 the recording of New Phone;
 - 11.4.5.3.2 the front-end loading of the Digital Recorded Announcement Machine (DRAM) in each TOPS switch.
 - 11.4.5.4 Operator Call Processing customized branding uses:
 - 11.4.5.4.1 the recording of New Phone;
 - 11.4.5.4.2 the front-end loading of the DRAM in the TOPS Switch;
 - 11.4.5.4.3 the 0- automation loading for the audio units in the Enhanced Billing and Access Service (EBAS) in the Network Applications Vehicle (NAV).
- 11.5 Directory Assistance Database Service (DADS)
 - 11.5.1 BellSouth shall make its Directory Assistance Database Service (DADS) available solely for the expressed purpose of providing Directory Assistance type services to New Phone 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)). New Phone 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, New Phone agrees not to disclose

DADS to others and shall provide due care in providing for the security and confidentiality of DADS. Further, New Phone authorizes the inclusion of New Phone Subscriber listings in the BellSouth Directory Assistance products.

- 11.5.2 BellSouth shall provide New Phone initially with a base file of subscriber listings which reflect all listing change activity occurring since New Phone's most recent update via magnetic tape, and subsequently using electronic connectivity such as Network Data Mover to be developed mutually by New Phone and BellSouth. New Phone agrees to assume the costs associated with CONNECT: Direct™ connectivity, which will vary depending upon volume and mileage.
- 11.5.3 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 New Phone on a Business, Residence, or combined Business and Residence basis. New Phone agrees that the updates shall be used solely to keep the information current. Delivery of Daily Updates will commence the day after New Phone receives the Base File.
- 11.5.4 BellSouth is authorized to include New Phone Subscriber List Information in its Directory Assistance Database Service (DADS) and its Directory Publishers Database Service (DPDS). Any other use by BellSouth of New Phone Subscriber List Information is not authorized and with the exception of a request for DADS or DPDS, BellSouth shall refer any request for such information to New Phone.
- 11.5.5 Rates for DADS are as set forth in this Attachment.
- 11.6 Direct Access to Directory Assistance Service
- 11.6.1 Direct Access to Directory Assistance Service (DADAS) will provide New Phone'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 New Phone to utilize its own switch, operator workstations and optional audio subsystems.
- 11.6.2 BellSouth will provide DADAS from its DA location. New Phone will access the DADAS system via a telephone company provided point of availability. New Phone 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.

- 11.6.3 A specified interface to each New Phone subsystem will be provided by BellSouth. Interconnection between New Phone system and a specified BellSouth location will be pursuant to the use of New Phone owned or New Phone leased facilities and shall be appropriate sized based upon the volume of queries being generated by New Phone.
- 11.6.4 The specifications for the three interfaces necessary for interconnection are available in the following documents:
 - 11.6.4.1 DADAS to Subscriber Operator Position System—Northern Telecom Document CSI-2300-07; Universal Gateway/ Position Message Interface Format Specification
 - 11.6.4.2 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
 - 11.6.4.3 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
- 11.6.5 Rates for DADAS are as set forth in this Attachment.

12. Signaling

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.

12.1 Definition of Signaling Link Transport

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.

12.2 Technical Requirements

- 12.2.1 Signaling Link Transport shall consist of full duplex mode 56 kbps transmission paths.
- 12.2.2 Of the various options available, Signaling Link Transport shall perform in the following two ways:
 - 12.2.2.1 As an “A-link” which is a connection between a switch or SCP and a home Signaling Transfer Point Switch (STP) pair; and
 - 12.2.2.2 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)).
- 12.2.3 Signaling Link Transport shall consist of two or more signaling link layers as follows:
 - 12.2.3.1 An A-link layer shall consist of two links.
 - 12.2.3.2 A B-link layer shall consist of four links.
- 12.2.4 A signaling link layer shall satisfy a performance objective such that:
 - 12.2.4.1 There shall be no more than two minutes down time per year for an A-link layer; and
 - 12.2.4.2 There shall be negligible (less than 2 seconds) down time per year for a B-link layer.
- 12.2.5 A signaling link layer shall satisfy interoffice and intraoffice diversity of facilities and equipment, such that:
 - 12.2.5.1 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
 - 12.2.5.2 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).
- 12.3 Interface Requirements
 - 12.3.1 There shall be a DS1 (1.544 Mbps) interface at the New Phone-designated SPOIs. Each 56 kbps transmission path shall appear as a DS0 channel within the DS1 interface.

13. Signaling Transfer Points (STPs)

13.1 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

13.2 Technical Requirements

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

13.2.1.1 BellSouth Local Switching or Tandem Switching;

13.2.1.2 BellSouth Service Control Points/DataBases;

13.2.1.3 Third-party local or tandem switching;

13.2.1.4 Third-party-provided STPs.

13.2.2 The connectivity provided by STPs shall fully support the functions of all other Network Elements connected to BellSouth SS7 network. This explicitly includes the use of BellSouth SS7 network to convey messages which neither originate nor terminate at a signaling end point directly connected to BellSouth SS7 network (*i.e.*, transient messages). When 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.

13.2.3 If a BellSouth tandem switch routes calling traffic, based on dialed or translated digits, on SS7 trunks between an New Phone local switch and third party local switch, 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 New Phone 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.

13.2.4 STPs shall provide all functions of the MTP as defined in Telcordia (formerly BellCore) ANSI Interconnection Requirements. This includes:

13.2.4.1 Signaling Data Link functions, as defined in Telcordia (formerly BellCore) ANSI Interconnection Requirements,

- 13.2.4.2 Signaling Link functions, as defined in Telcordia (formerly BellCore) ANSI Interconnection Requirements, and
- 13.2.4.3 Signaling Network Management functions, as defined in Telcordia (formerly BellCore) ANSI Interconnection Requirements.
- 13.2.5 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 New Phone 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 New Phone database, then New Phone agrees to provide BellSouth with the Destination Point Code for the New Phone database.
- 13.2.6 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:
 - 13.2.6.1 MTP Routing Verification Test (MRVT) and
 - 13.2.6.2 SCCP Routing Verification Test (SRVT).
- 13.2.7 In cases where the destination signaling point is a BellSouth local or tandem switching system or database, or is a New Phone 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 New Phone and BellSouth.
- 13.2.8 STPs shall be on parity with BellSouth.
- 13.2.9 SS7 Advanced Intelligent Network (AIN) Access

- 13.2.9.1 When technically feasible and upon request by New Phone, SS7 Access shall be made available in association with switching. SS7 AIN Access is the provisioning of AIN 0.1 triggers in an equipped BellSouth local switch and interconnection of the BellSouth SS7 network with the New Phone SS7 network to exchange TCAP queries and responses with a New Phone SCP.
- 13.2.9.2 SS7 AIN Access shall provide New Phone SCP access to BellSouth local switch in association with switching via interconnection of BellSouth SS7 and New Phone SS7 Networks. BellSouth shall offer SS7 access through its STPs. If BellSouth requires a mediation device on any part of its network specific to this form of access, BellSouth must route its messages in the same manner. The interconnection arrangement shall result in the BellSouth local switch recognizing the New Phone SCP as at least at parity with BellSouth's SCPs in terms of interfaces, performance and capabilities.
- 13.3 Interface Requirements
- 13.3.1 BellSouth shall provide the following STPs options to connect New Phone or New Phone-designated local switching systems or STPs to BellSouth SS7 network:
- 13.3.1.1 An A-link interface from New Phone local switching systems; and,
- 13.3.1.2 A B-link interface from New Phone local STPs.
- 13.3.2 Each type of interface shall be provided by one or more sets (layers) of signaling links.
- 13.3.3 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 New Phone local switching systems or STPs with BellSouth STPs as soon as these become approved ANSI standards and available capabilities of BellSouth STPs. BellSouth and New Phone will work jointly to establish mutually acceptable SPOIs.
- 13.3.4 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 New Phone will work jointly to establish mutually acceptable SPOIs.

- 13.3.5 BellSouth shall provide MTP and SCCP protocol interfaces that shall conform to all sections relevant to the MTP or SCCP in the following specifications:
 - 13.3.5.1 Telcordia (formerly BellCore) GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP);
 - 13.3.5.2 Telcordia (formerly BellCore) GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).
- 13.3.6 Message Screening
 - 13.3.6.1 BellSouth shall set message screening parameters so as to accept valid messages from New Phone local or tandem switching systems destined to any signaling point within BellSouth's SS7 network where the New Phone switching system has a legitimate signaling relation.
 - 13.3.6.2 BellSouth shall set message screening parameters so as to pass valid messages from New Phone local or tandem switching systems destined to any signaling point or network accessed through BellSouth's SS7 network where the New Phone switching system has a legitimate signaling relation.
 - 13.3.6.3 BellSouth shall set message screening parameters so as to accept and pass/send valid messages destined to and from New Phone from any signaling point or network interconnected through BellSouth's SS7 network where the New Phone SCP has a legitimate signaling relation.
- 13.4 STPs shall be equal to or better than all of the requirements for STPs set forth in the following technical references:
 - 13.4.1 ANSI T1.111-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP);
 - 13.4.2 ANSI T1.111A-1994 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP) Supplement;
 - 13.4.3 ANSI T1.112-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Signaling Connection Control Part (SCCP);
 - 13.4.4 ANSI T1.115-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Monitoring and Measurements for Networks;

- 13.4.5 ANSI T1.116-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Operations, Maintenance and Administration Part (OMAP);
- 13.4.6 ANSI T1.118-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Intermediate Signaling Network Identification (ISNI);
- 13.4.7 Telcordia (formerly BellCore) GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP); and
- 13.4.8 Telcordia (formerly BellCore) GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).

14. Service Control Points/DataBases

14.1 Definition

14.1.1 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.

14.1.2 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.

14.2 Technical Requirements for SCPs/Databases

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 New Phone in accordance with the following requirements.

- 14.2.1 BellSouth shall provide physical access to SCPs through the SS7 network and protocols with TCAP as the application layer protocol.
- 14.2.2 BellSouth shall provide physical interconnection to databases via industry standard interfaces and protocols (e.g. SS7, ISDN and X.25).
- 14.2.3 The reliability of interconnection options shall be consistent with requirements for diversity and survivability.
- 14.2.4 Database Availability
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.
- 14.2.5 The operational interface provided by BellSouth shall complete Database transactions (i.e., add, modify, delete) for New Phone customer records stored in BellSouth databases within 3 days, or sooner where BellSouth provisions its own customer records within a shorter interval.

14.3 Local Number Portability Database

14.3.1 Definition

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.

14.4 Line Information Database (LIDB)

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

14.4.1 Definition

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 CCS network and other CCS networks. LIDB also interfaces to administrative systems.

14.4.2 Technical Requirements

BellSouth will offer to New Phone any additional capabilities that are developed for LIDB during the life of this Agreement.

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

14.4.2.2 Within two (2) weeks after a request by New Phone, BellSouth shall provide New Phone with a list of the customer data items which New Phone 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.

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

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

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

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

14.4.2.7 BellSouth shall provide priority updates to LIDB for New Phone data upon New Phone'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.

- 14.4.2.8 BellSouth shall provide LIDB systems such that no more than 0.01% of New Phone customer records will be missing from LIDB, as measured by New Phone audits. BellSouth will audit New Phone records in LIDB against DBAS to identify record mismatches and provide this data to a designated New Phone contact person to resolve the status of the records and BellSouth will update system appropriately. BellSouth will refer record of mismatches to New Phone within one business day of audit. Once reconciled records are received back from New Phone, 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 New Phone to negotiate a time frame for the updates, not to exceed three business days.
- 14.4.2.9 BellSouth shall perform backup and recovery of all of New Phone'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.
- 14.4.2.10 BellSouth shall provide New Phone 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 New Phone and BellSouth.
- 14.4.2.11 BellSouth shall prevent any access to or use of New Phone 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 New Phone in writing.
- 14.4.2.12 BellSouth shall provide New Phone 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 New Phone at least at parity with BellSouth Customer Data. BellSouth shall obtain from New Phone the screening information associated with LIDB Data Screening of New Phone 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 New Phone under the Bona Fide Request/New Business Process as set forth in General Terms and Conditions .
- 14.4.2.13 BellSouth shall accept queries to LIDB associated with New Phone customer records, and shall return responses in accordance with industry standards.

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

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

14.4.3 Interface Requirements

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

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

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

14.4.3.3 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.

14.5 Toll Free Number Database

The Toll Free Number Database is a SCP that provides functionality necessary for toll free (e.g., 800 and 888) number services by providing routing information and additional so-called vertical features during call set-up in response to queries from SSPs. BellSouth shall provide the Toll Free Number Database in accordance with the following:

14.5.1 Technical Requirements

14.5.1.1 BellSouth shall make BellSouth Toll Free Number Database available for New Phone to query with a toll-free number and originating information.

14.5.1.2 The Toll Free Number Database shall return carrier identification and, where applicable, the queried toll free number, translated numbers and instructions as it would in response to a query from a BellSouth switch.

14.5.1.3 The SCP shall also provide, at New Phone'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:

14.5.1.3.1 Network Management;

14.5.1.3.2 Customer Sample Collection; and

14.5.1.3.3 Service Maintenance

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

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:

14.6.1 Technical Requirements

14.6.1.1 BellSouth shall offer New Phone a data link to the ALI/DMS database or permit New Phone to provide its own data link to the ALI/DMS database. BellSouth shall provide error reports from the ALI/DMS database to New Phone immediately after New Phone inputs information into the ALI/DMS database. Alternately, New Phone 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.

14.6.1.2 The ALI/DMS database shall contain the following end user information:

14.6.1.2.1 Name;

14.6.1.2.2 Address;

14.6.1.2.3 Telephone number; and

14.6.1.2.4 Other information as appropriate (e.g., whether a end user is blind or deaf or has another disability).

14.6.1.3 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 New Phone requests otherwise and shall be updated if New Phone requests, provided New Phone supplies BellSouth with the updates.

14.6.1.4 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.

14.6.1.5 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.

14.6.2 Interface Requirements

The interface between the E911 Switch or Tandem and the ALI/DMS database for New Phone end users shall meet industry standards.

14.7 Directory Assistance Database

BellSouth shall make its directory assistance database available to New Phone in order to allow New Phone to provide its end users with the same directory assistance telecommunications services BellSouth provides to BellSouth end users. BellSouth shall provide New Phone with an initial feed via magnetic tape and daily update initially via magnetic tape and subsequently via an electronic gateway to be developed mutually by New Phone and BellSouth of end user address and number changes. Directory Assistance Services must provide both the ported and New Phone telephone numbers to the extent available in BellSouth's database assigned to an end user. Privacy indicators must be properly identified to assure the non-published numbers are accurately identified.

14.8 Calling Name (CNAM) Database Service

The Agreement for Calling Name (CNAM) with standard pricing is included as Exhibit C to this Attachment. New Phone must provide to its account manager a written request with a requested activation date to activate this service. If New Phone is interested in requesting CNAM with volume and term pricing, New Phone must contact its account manager to request a separate CNAM volume and term Agreement.

14.9 SCPs/Databases shall be equal to or better than all of the requirements for SCPs/Databases set forth in the following technical references:

14.9.1 GR-246-CORE, Bell Communications Research Specification of Signaling System Number 7, ISSUE 1 (Telcordia (formerly BellCore), December 199);

14.9.2 GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP). (Telcordia (formerly BellCore), March 1994);

14.9.3 GR-954-CORE, CCS Network Interface Specification (CCSNIS) Supporting Line Information Database (LIDB) Service 6, Issue 1, Rev. 1 (Telcordia (formerly BellCore), October 1995);

14.9.4 GR-1149-CORE, OSSGR Section 10: System Interfaces, Issue 1 (Telcordia (formerly BellCore), October 1995) (Replaces TR-NWT-001149);

14.9.5 Telcordia (formerly BellCore) GR-1158-CORE, OSSGR Section 22.3: Line Information Database 6, Issue (Telcordia (formerly BellCore), October 1995);

14.9.6 Telcordia (formerly BellCore) GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service (Telcordia (formerly BellCore), May 1995); and

14.9.7 BOC Notes on BellSouth Networks, SR-TSV-002275, ISSUE 2, (Telcordia (formerly BellCore), April 1994).

14.10 Service Creation Environment and Service Management System (SCE/SMS) Advanced Intelligent Network (AIN) Access.

14.10.1 BellSouth's Service Creation Environment and Service Management System (SCE/SMS) Advanced Intelligent Network (AIN) Access shall provide New Phone the capability that will allow New Phone 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.

- 14.10.2 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 New Phone. Scheduling procedures shall provide New Phone equivalent priority to these resources
- 14.10.3 BellSouth SCP shall partition and protect New Phone service logic and data from unauthorized access, execution or other types of compromise.
- 14.10.4 When New Phone selects SCE/SMS AIN Access, BellSouth shall provide training, documentation, and technical support to enable New Phone 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.
- 14.10.5 When New Phone selects SCE/SMS AIN Access, BellSouth shall provide for a secure, controlled access environment in association with its internal use of AIN components. New Phone access will be provided via remote data connection (*e.g.*, dial-in, ISDN).
- 14.10.6 When New Phone selects SCE/SMS AIN Access, BellSouth shall allow New Phone 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).

15. Dark Fiber

15.1 Definition

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.

15.2 Requirements

- 15.2.1 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 New Phone.
- 15.2.2 If the requested dark fiber has any lightwave repeater equipment interspliced to it, BellSouth will remove such equipment at New Phone's request subject to time and materials charges.

BellSouth shall use its best efforts to provide to New Phone information regarding the location, availability and performance parameters of Dark Fiber within ten (10) business days, after receiving a request from New Phone ("Request"). Within such time period, BellSouth shall send written confirmation of availability of the Dark Fiber ("Confirmation").

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

16. SS7 Network Interconnection

16.1 Definition

SS7 Network Interconnection is the interconnection of New Phone local Signaling Transfer Point Switches (STP) and New Phone 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), New Phone local or tandem switching systems, and other third-party switching systems directly connected to the BellSouth SS7 network.

16.2 Technical Requirements

- 16.2.1 SS7 Network Interconnection shall provide connectivity to all components of the BellSouth SS7 network. These include:
- 16.2.1.1 BellSouth local or tandem switching systems;
- 16.2.1.2 BellSouth DBs; and

- 16.2.1.3 Other third-party local or tandem switching systems.
- 16.2.2 The connectivity provided by SS7 Network Interconnection shall fully support the functions of BellSouth switching systems and DBs and New Phone or other third-party switching systems with A-link access to the BellSouth SS7 network.
- If traffic is routed based on dialed or translated digits between an New Phone local switching system and a BellSouth or other third-party local switching system, either directly or via a BellSouth tandem switching system, then it is a requirement that the BellSouth SS7 network convey via SS7 Network Interconnection the TCAP messages that are necessary to provide Call Management services (Automatic Callback, Automatic Recall, and Screening List Editing) between the New Phone local STPs and BellSouth or other third-party local switch.
- 16.2.3 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).
- 16.2.4 SS7 Network Interconnection shall provide all functions of the MTP as specified in ANSI T1.111. This includes:
- 16.2.4.1 Signaling Data Link functions, as specified in ANSI T1.111.2;
- 16.2.4.2 Signaling Link functions, as specified in ANSI T1.111.3; and
- 16.2.4.3 Signaling Network Management functions, as specified in ANSI T1.111.4.
- 16.2.5 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 a New Phone local or tandem switching system, SS7 Network Interconnection shall include intermediate GTT of messages to a gateway pair of New Phone local STPs, and shall not include SCCP Subsystem Management of the destination.
- 16.2.6 SS7 Network Interconnection shall provide all functions of the Integrated Services Digital Network User Part (ISDNUP), as specified in ANSI T1.113.

- 16.2.7 SS7 Network Interconnection shall provide all functions of the TCAP, as specified in ANSI T1.114.
- 16.2.8 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.
- 16.2.9 SS7 Network Interconnection shall be equal to or better than the following performance requirements:
 - 16.2.9.1 MTP Performance, as specified in ANSI T1.111.6;
 - 16.2.9.2 SCCP Performance, as specified in ANSI T1.112.5; and
 - 16.2.9.3 ISDNUP Performance, as specified in ANSI T1.113.5.
- 16.3 Interface Requirements
 - 16.3.1 BellSouth shall offer the following SS7 Network Interconnection options to connect New Phone or New Phone-designated local or tandem switching systems or STPs to the BellSouth SS7 network:
 - 16.3.1.1 A-link interface from New Phone local or tandem switching systems; and
 - 16.3.1.2 B-link interface from New Phone STPs.
 - 16.3.2 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 New Phone local switching systems or STPs with BellSouth STPs as soon as these become approved ANSI standards and available capabilities of BellSouth STPs. BellSouth and New Phone will work jointly to establish mutually acceptable SPOI.
 - 16.3.3 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 New Phone will work jointly to establish mutually acceptable SPOI.

- 16.3.4 The protocol interface requirements for SS7 Network Interconnection include the MTP, ISDNUP, SCCP, and TCAP. These protocol interfaces shall conform to the following specifications:
 - 16.3.4.1 Telcordia (formerly BellCore) GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP);
 - 16.3.4.2 Telcordia (formerly BellCore) GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service;
 - 16.3.4.3 Telcordia (formerly BellCore) GR-1429-CORE, CCS Network Interface Specification (CCSNIS) Supporting Call Management Services; and
 - 16.3.4.4 Telcordia (formerly BellCore) GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).
- 16.3.5 BellSouth shall set message screening parameters to block accept messages from New Phone local or tandem switching systems destined to any signaling point in the BellSouth SS7 network with which the New Phone switching system has a legitimate signaling relation.
- 16.4 SS7 Network Interconnection shall be equal to or better than all of the requirements for SS7 Network Interconnection set forth in the following technical references:
 - 16.4.1 ANSI T1.110-1992 American National Standard Telecommunications - Signaling System Number 7 (SS7) - General Information;
 - 16.4.2 ANSI T1.111-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP);
 - 16.4.3 ANSI T1.111A-1994 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP) Supplement;
 - 16.4.4 ANSI T1.112-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Signaling Connection Control Part (SCCP);
 - 16.4.5 ANSI T1.113-1995 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Integrated Services Digital Network (ISDN) User Part;

- 16.4.6 ANSI T1.114-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Transaction Capabilities Application Part (TCAP);
- 16.4.7 ANSI T1.115-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Monitoring and Measurements for Networks;
- 16.4.8 ANSI T1.116-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Operations, Maintenance and Administration Part (OMAP);
- 16.4.9 ANSI T1.118-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Intermediate Signaling Network Identification (ISNI);
- 16.4.10 Telcordia (formerly BellCore) GR-905-CORE, Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection, Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP);
- 16.4.11 Telcordia (formerly BellCore) GR-954-CORE, CCS Network Interface Specification (CCSNIS) Supporting Line Information Database (LIDB) Service;
- 16.4.12 Telcordia (formerly BellCore) GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service;
- 16.4.13 Telcordia (formerly BellCore) GR-1429-CORE, CCS Network Interface Specification (CCSNIS) Supporting Call Management Services; and,
- 16.4.14 Telcordia (formerly BellCore) GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).

17. Basic 911 and E911

If New Phone orders network elements and other services, then New Phone 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.

17.1 Definition

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).

17.2 Requirements

17.2.1 Basic 911 Service Provisioning. For Basic 911 service, BellSouth will provide to New Phone 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. New Phone 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. New Phone will be required to route that call to BellSouth at the appropriate tandem or end office. When a municipality converts to E911 service, New Phone will be required to discontinue the Basic 911 procedures and being using E911 procedures.

17.2.2 E911 Service Provisioning. For E911 service, New Phone will be required to install a minimum of two dedicated trunks originating from the New Phone 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. New Phone will be required to provide BellSouth daily updates to the E911 database. New Phone 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, New Phone 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. New Phone 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.

17.2.3 Rates. Charges for 911/E911 service are borne by the municipality purchasing the service. BellSouth will impose no charge on New Phone beyond applicable charges for BellSouth trunking arrangements.

17.2.4 Basic 911 and E911 functions provided to New Phone shall be at least at parity with the support and services that BellSouth provides to its end users for such similar functionality.

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 New Phone to follow in providing 911/E911 services.

18. Rates

18.1. General

The prices that New Phone shall pay to BellSouth for Network Elements and Other Services are set forth in Exhibit C to this Attachment. It is the intent of the parties that where applicable state commissions have approved rates for network elements and other services set forth in this Agreement as of the date hereof, such rates have been included in Exhibit C.

18.2. Operational Support Systems (OSS)

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

LENS	Local Exchange Navigation System
EDI	Electronic Data Interface
EDI-PC	Electronic Data Interface – Personal Computer
TAG	Telecommunications Access Gateway

LSRs submitted by means of one of these interactive interfaces will incur an OSS electronic ordering charge. 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. All OSS charges are specified in Rate Exhibit C of this Attachment 2.

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

Denial/Restoral OSS Charge

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

Cancellation OSS Charge

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

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

Network Elements and Other Services Manual Additive

The Commissions in Alabama, Georgia, Louisiana, Mississippi and South Carolina have ordered incremental manual non-recurring charges (NRC) for Network Elements and Other Services ordered by means other than one of the interactive interfaces. These ordered Network Elements and Other Services manual additive NRCs will apply in these states, rather than the charge per LSR.

EXHIBIT A

**LINE INFORMATION DATA BASE (LIDB)
STORAGE AGREEMENT**

I. SCOPE

A. This Agreement sets forth the terms and conditions pursuant to which BST agrees to store in its LIDB certain information at the request of the Local Exchange Company and pursuant to which BST, its LIDB customers and Local Exchange Carrier shall have access to such information. Local Exchange Carrier understands that BST 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 Local Exchange Carrier, 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. BST 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 BST's LIDB, provided that such information is included in the LIDB query. BST will establish fraud alert thresholds and will notify the Local Exchange Company of fraud alerts so that the Local Exchange Company may

take action it deems appropriate. Local Exchange Company understands and agrees BST will administer all data stored in the LIDB, including the data provided by Local Exchange Company pursuant to this Agreement, in the same manner as BST's data for BST's end user customers. BST shall not be responsible to Local Exchange Company for any lost revenue which may result from BST's administration of the LIDB pursuant to its established practices and procedures as they exist and as they may be changed by BST in its sole discretion from time to time.

Local Exchange Company understands that BST currently has in effect numerous billing and collection agreements with various interexchange carriers and billing clearing houses. Local Exchange Company further understands that these billing and collection customers of BST query BST's LIDB to determine whether to accept various billing options from end users. Additionally, Local Exchange Company understands that presently BST has no method to differentiate between BST's own billing and line data in the LIDB and such data which it includes in the LIDB on Local Exchange Company's behalf pursuant to this Agreement. Therefore, until such time as BST can and does implement in its LIDB and its supporting systems the means to differentiate Local Exchange Company's data from BST's data and the Parties to this Agreement execute appropriate amendments hereto, the following terms and conditions shall apply:

(a) The Local Exchange Company agrees that it will accept responsibility for telecommunications services billed by BST for its billing and collection customers for Local Exchange Customer's end user accounts which are resident in LIDB pursuant to this Agreement. Local Exchange Company authorizes BST to place such charges on Local Exchange Company's

bill from BST and agrees that it shall pay all such charges. Charges for which Local Exchange Company hereby takes responsibility include, but are not limited to, collect and third number calls.

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

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

(d) BST shall not become involved in any disputes between Local Exchange Company and the entities for which BST performs billing and collection.

BellSouth will not issue adjustments for charges billed on behalf of an entity to Local Exchange Company. It shall be the responsibility of the Local Exchange Company and the other entity to negotiate and arrange for any appropriate adjustments.

II. TERM

This Agreement will be effective as of June 30, 2000 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. The Local Exchange Company will not be charged a fee for storage services provided by BST to the Local Exchange Company, as described in Section I of this Agreement.

B. Sales, use and all other taxes (excluding taxes on BST's income) determined by BST 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 the Local Exchange Company. The Local Exchange Company shall have the right to have BST contest with the imposing jurisdiction, at the Local Exchange Company's expense, any such taxes that the Local Exchange Company 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

In the absence of gross negligence or willful misconduct, 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 BST 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. The Local Exchange Company agrees to submit to BST all advertising, sales promotion, press releases, and other publicity matters relating to this Agreement wherein BST's corporate or trade names, logos, trademarks or service marks or those of BST's affiliated companies are mentioned or language from which the connection of said names or trademarks therewith may be inferred or implied; and the Local Exchange Company further agrees not to

publish or use advertising, sales promotions, press releases, or publicity matters without BST's prior written approval.

D. This Agreement constitutes the entire Agreement between the Local Exchange Company and BST 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 New Phone of Georgia, and the construction, interpretation and performance of this Agreement and all transactions hereunder shall be governed by the domestic law of such New Phone.

***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 June 30, 2000, between BellSouth Telecommunications, Inc. (“BST”), and TriVergent Communications, Inc. (“Local Exchange Company”), effective the 30th day of June, 2000.

I. GENERAL

This Addendum sets forth the terms and conditions for Local Exchange Company’s provision of billing number information to BST for inclusion in BST’s LIDB. BST will store in its LIDB the billing number information provided by Local Exchange Company, and BST 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 the Local Exchange Company 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 the Local Exchange Company.

C. Special billing number - a ten digit number that identifies a billing account established by the Local Exchange Company.

D. Calling Card number - a billing number plus PIN number.

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

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

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 BST by the Local Exchange Company.

III. RESPONSIBILITIES OF PARTIES

A. The Local Exchange Company will provide its billing number information to BST's LIDB each business day by a method that has been mutually agreed upon by both Parties.

B. BST will store in its LIDB the billing number information provided by the Local Exchange Company. Under normal operating conditions, BST shall include the Local Exchange Company's billing number information in its LIDB no later than two business days following BST's receipt of such billing number information, provided that BST 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 BST's reasonable control. BST will store in its LIDB an unlimited volume of the Local Exchange Company's working telephone numbers.

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

D. BST is authorized to use the billing number information provided by the Local Exchange Company 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 the Local Exchange Company, and where the last four digits (PIN) are a security code assigned by the Local Exchange Company.

2. Determine whether the Local Exchange Company or the subscriber has identified the billing number as one which should not be billed for collect or third number calls, or both.

E. The Local Exchange Company will provide its own billing number information to BST for storage and to be used for Billed Number Screening and Calling Card Validation. The Local Exchange Company will arrange and pay for transport of updates to BST.

IV. COMPLIANCE

Unless expressly authorized in writing by the Local Exchange Company, all billing number information provided pursuant to this Addendum shall be used for no purposes other than those set forth in this Addendum.

EXHIBIT C

CALLING NAME DELIVERY (CNAM) DATABASE SERVICES

1.00 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 New Phone 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.

2.0 ATTACHMENT

- 2.01 This Attachment contains the terms and conditions where BellSouth will provide to the New Phone access to the BellSouth CNAM SCP for query or record storage purposes.
- 2.02 New Phone 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 New Phone's access to BellSouth's CNAM Database Services and shall be addressed to New Phone's Account Manager.

3.00 PHYSICAL CONNECTION AND COMPENSATION

- 3.01 BellSouth's provision of CNAM Database Services to New Phone requires interconnection from New Phone 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.
- 3.02 In order to formulate a CNAM query to be sent to the BellSouth CNAM SCP, New Phone shall provide its own CNAM SSP. New Phone's CNAM SSPs must be compliant with TR-NWT-001188, "CLASS Calling Name Delivery Generic Requirements".
- 3.03 If New Phone 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 New Phone desires to query.
- 3.04 **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.

4.00 CNAM RECORD INITIAL LOAD AND UPDATES

- 4.01 The mechanism to be used by New Phone for initial CNAM record load and/or updates shall be determined by mutual agreement. The initial load and all updates shall be provided by New Phone in the BellSouth specified format and shall contain records for every working telephone number that can originate phone calls. It is the responsibility of New Phone to provide accurate information to BellSouth on a current basis.
- 4.02 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.
- 4.03 New Phone 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.