BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Request by BellSouth Telecommunications, Inc. for approval of interconnection, unbundling, and resale agreement with Golden Harbor of Florida, Inc. d/b/a Hometown Telephone, Inc. Pursuant to Sections 251, 252, and 271 of the Telecommunications Act of 1996.

DOCKET NO. 980309-TP ORDER NO. PSC-98-0777-FOF-TP ISSUED: June 8, 1998

The following Commissioners participated in the disposition of this matter:

JULIA L. JOHNSON, Chairman
J. TERRY DEASON
SUSAN F. CLARK
JOE GARCIA
E. LEON JACOBS, JR.

ORDER APPROVING RESALE, INTERCONNECTION, AND UNBUNDLING AGREEMENT

BY THE COMMISSION:

On March 2, 1998, BellSouth Telecommunications, Inc. (BellSouth) and Golden Harbor of Florida, Inc. d/b/a Hometown Telephone, Inc. (HTI) filed a request for approval of an resale, interconnection, and unbundling agreement under the Telecommunications Act of 1996, 47 U.S.C. §252(e) of the Telecommunications Act of 1996 (the Act). The agreement is attached to this Order as Attachment A and incorporated by reference herein.

Both the Act and Chapter 364, Florida Statutes, encourage parties to enter into negotiated agreements to bring about local exchange competition as quickly as possible. Under the requirements of 47 U.S.C. § 252(e), negotiated agreements must be submitted to the state commission for approval. Section 252(e)(4) requires the state to reject or approve the agreement within 90 days after submission or it shall be deemed approved.



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This agreement covers a two-year period and governs the relationship between the companies regarding local interconnection and the exchange of traffic pursuant to 47 U.S.C. § 251. Under 47 U.S.C. § 252(a)(1), the agreement shall include a detailed schedule of itemized charges for interconnection and each service or network element included in the agreement.

Upon review of the proposed agreement, we find that it complies with the Telecommunications Act of 1996; thus, we hereby approve it. BellSouth and HTI must file any supplements or modifications to their agreement with the Commission for review under the provisions of 47 U.S.C. § 252(e). We note that approval of this agreement does not constitute a determination that BellSouth has met the requirements of Section 271 of the Telecommunications Act.

Based on the foregoing, it is

ORDERED by the Florida Public Service Commission that the resale, interconnection, and unbundling agreement between BellSouth Telecommunications, Inc. and Golden Harbor of Florida, Inc. d/b/a Hometown Telephone, Inc., as set forth in Attachment A and incorporated by reference in this Order, is hereby approved. It is further

ORDERED that any supplements or modifications to this agreement must be filed with the Commission for review under the provisions of 47 U.S.C. \S 252(e). It is further

ORDERED that this docket shall be closed.

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By ORDER of the Florida Public Service Commission, this 8th day of June, 1998.

BLANCA S. BAYÓ, Directo

Division of Records and Reporting

(SEAL)

SRF

NOTICE OF FURTHER PROCEEDINGS OR JUDICIAL REVIEW

The Florida Public Service Commission is required by Section 120.569(1), Florida Statutes, to notify parties of any administrative hearing or judicial review of Commission orders that is available under Sections 120.57 or 120.68, Florida Statutes, as well as the procedures and time limits that apply. This notice should not be construed to mean all requests for an administrative hearing or judicial review will be granted or result in the relief sought.

Any party adversely affected by the Commission's final action in this matter may request: 1) reconsideration of the decision by filing a motion for reconsideration with the Director, Division of Records and Reporting, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, within fifteen (15) days of the issuance of this order in the form prescribed by Rule 25-22.060, Florida Administrative Code; or 2) judicial review in Federal district court pursuant to the Federal Telecommunications Act of 1996, 47 U.S.C. § 252(e)(6).

ORDER NO. PSC-98-0777-FOF-TP DOCKET NO. 980309-TP PAGE 4

Legal

@ BELLSOUTH

BellSouth Telecommunications, Inc.

904 224-7798 Fax 904 224-5073

A. M. Lombardo

Regulatory Vice President

Suite 400 150 South Monroe Street

150 South Monroe Street Tallahassee, Florida 32301-1556

February 27, 1998

الأدومي ا

Mrs. Blanca S. Bayo

Director, Division of Records and Reporting

Florida Public Service Commission

2540 Shumard Oak Boulevard

Tallahassee, Florida 32399

986309-TP

Re: Approval of the Interconnection Agreement Negotiated by BellSouth Telecommunications, Inc. ("BellSouth") and Golden Harbor of Florida, Inc. d/b/a Hometown Telephone, Inc. ("HTI") pursuant to Sections 251, 252 and 271 of the Telecommunications Act of 1996

Dear Mrs. Bayo:

Pursuant to section 252(e) of the Telecommunications Act of 1996, BellSouth and Golden Harbor of Florida, Inc. d/b/a Hometown Telephone, Inc. ("HTI") are submitting to the Florida Public Service Commission their negotiated agreement for the interconnection of their networks, the unbundling of specific network elements offered by BellSouth and the resale of BellSouth telecommunications services to Golden Harbor of Florida, Inc. d/b/a Hometown Telephone, Inc. ("HTI"). The agreement was negotiated pursuant to sections 251, 252 and 271 of the Act.

Pursuant to section 252(e) of the Act, the Commission is charged with approving or rejecting the negotiated agreement between BellSouth and Golden Harbor of Florida, Inc. d/b/a Hometown Telephone, Inc. ("HTI") within 90 days of its submission. The Commission may only reject such an agreement if it finds that the agreement or any portion of the agreement discriminates against a telecommunications carrier not a party to the agreement or the implementation of the agreement or any portion of the agreement is not consistent with the public interest, convenience and necessity. Both parties represent that neither of these reasons exist as to the agreement they have negotiated and that the Commission should approve their agreement.

Very truly yours,

Regulatory Vice President

DOCUMENT NUMBER-DATE

02785 MAR-28

FRSC-RECORDS/PEPORTING

AGREEMENT

between

BellSouth Telecommunications, Inc.

and

Golden Harbor of Florida, Inc.

d/b/a HTI, Inc.

Effective Date: December 24, 1997

FLORIDA

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AGREEMENT

PREFACE

This Agreement, which shall become effective as of the 24th day of December, 1997, is entered into by and between Golden Harbor of Florida, Inc. d/b/a Hometown Telephone, Inc. ("HTI"), a Texas Corporation, having an office at 401 Carlson Circle, San Marcus, Texas 78666, on behalf of itself, its successors and assigns, and BellSouth Telecommunications, Inc. ("BellSouth"), a Georgia corporation, on behalf of itself, its successors and assigns, having an office at 675 West Peachtree Street, Atlanta, Georgia 30375.

RECITALS

WHEREAS, The Telecommunications Act of 1996 (the "Act") was signed into law on February 8, 1996; and

WHEREAS, the Act places certain duties and obligations upon, and grants certain rights to Telecommunications Carriers; and

WHEREAS, BellSouth is an Incumbent Local Exchange Carrier; and

WHEREAS, BellSouth is willing to provide Telecommunications Services for resale, Interconnection, Unbundled Network Elements and Ancillary Functions which include, but are not limited to, access to poles, ducts, conduits and rights-of-way, and collocation of equipment at BellSouth's Premises on the terms and subject to the conditions of this Agreement; and

WHEREAS, HTI is a Telecommunications Carrier and has requested that BellSouth negotiate an Agreement with HTI for the provision of Interconnection, Unbundled Network Elements, and Ancillary Functions as well as Telecommunications Services for resale, pursuant to the Act and in conformance with BellSouth's duties under the Act.

NOW, THEREFORE, in consideration of the promises and the mutual covenants of this Agreement, HTI and BellSouth hereby agree as follows:

DEFINITIONS and ACRONYMS

For purposes of this Agreement, certain terms have been defined in Attachment 11 and elsewhere in this Agreement to encompass meanings that may differ from, or be in addition to, the normal connotation of the defined word. Unless the context clearly indicates otherwise, any term defined or used in the singular shall include the plural. The words "shall" and "will" are used

1.A

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interchangeably throughout this Agreement and the use of either connotes a mandatory requirement. The use of one or the other shall not mean a different degree of right or obligation for either Party. A defined word intended to convey its special meaning is capitalized when used. Other terms that are capitalized, and not defined in this Agreement, shall have the meaning in the Act. For convenience of reference, Attachment 10 provides a list of acronyms used throughout this Agreement.

GENERAL TERMS AND CONDITIONS

1. Provision of Local Service and Unbundled Network Elements

This Agreement sets forth the terms, conditions and prices under which BellSouth agrees to provide (a) Telecommunications Service that BellSouth currently provides, or may offer hereafter for resale along with the Support Functions and Service Functions set forth in this Agreement (hereinafter collectively referred to as "Local Services") and (b) certain unbundled Network Elements, and (c) Ancillary Functions to HTI (Local Services, Network Elements, and Ancillary Functions, collectively referred to as "Services and Elements"). This Agreement also sets forth the terms and conditions for the interconnection of HTI's network to BellSouth's network and the mutual and reciprocal compensation for the transport and termination of telecommunications. BellSouth may fulfill the requirements imposed upon it by this Agreement by itself or, in the case of directory listings for white pages may cause BellSouth Advertising and Publishing Company ("BAPCO") to take such actions to fulfill BellSouth's responsibilities. This Agreement includes Parts I through IV, and their Attachments 1 - 15 and all accompanying Appendices and Exhibits. Unless otherwise provided in this Agreement, BellSouth will perform all of its obligations hereunder throughout its entire service area. The Parties further agree to comply with all provisions of the Act, including Section 271(e)(1).

The Local Services provided pursuant to this Agreement may be connected to or purchased in conjunction with other Local Service provided by BellSouth or to any Services or Elements provided by HTI itself or any other vendor. HTI may purchase unbundled Network Elements for the purpose of HTI combining said Network Elements, whether those Network Elements are to be combined by HTI with HTI's own Network Elements or are to be combined by HTI with other Network Elements purchased from BellSouth. HTI may utilize and combine such Network Elements in any manner that it chooses, including but not limited to, providing telecommunications services completely through access to the Network Elements of BellSouth's network. Notwithstanding the foregoing, should HTI utilize Network Elements to provide the same telecommunications services to an existing BellSouth customer, the charges for such Network Elements shall be the retail service charges for the service

provided by BellSouth less the resale discount set forth in section 35 of this Agreement.

- Subject to the requirements of this Agreement, HTI may, at any time add, relocate or modify any Services and Elements purchased hereunder. Requests for additions or other changes shall be handled pursuant to the Bona Fide Request Process provided in Attachment 14. Terminations of any Services or Elements shall be handled pursuant to Section 3.1 of the General Terms and Conditions of this Agreement.
- BellSouth shall not discontinue any Network Element, Ancillary Function, or Combination provided hereunder without the prior written consent of HTI. Such consent shall not be unreasonably withheld. BellSouth shall not discontinue any Local Service provided hereunder unless BellSouth provides HTI prior written notice of intent to discontinue any such service. BellSouth agrees to make any such service available to HTI for resale to HTI's Customers who are subscribers of such services from HTI until the date BellSouth discontinues any such service for BellSouth's customers. BellSouth also agrees to adopt a reasonable, nondiscriminatory transition schedule for BellSouth or HTI Customers who may be purchasing any such service.
- This Agreement may be amended from time to time as mutually agreed in writing between the Parties. The Parties agree that neither Party will take any action to proceed, nor shall either have any obligation to proceed on a requested change unless and until a modification to this Agreement is signed by authorized representatives of each Party.
- 1.4 The parties may agree to negotiate reasonable terms and conditions relating to the following: Network forecast on regular intervals, network performance standards to include but not limited to acceptable busy hour criteria, quality of service, standard interface at 64 clear channel signaling for ISDN compatibility, criteria for mutual end office trunking, and other related issues.

Term of Agreement

- When executed by authorized representatives of BellSouth and HTI, this Agreement shall become effective as of the Effective Date stated above, and shall expire two (2) years from the Effective Date unless terminated in accordance with the provisions of Section 3.2 of the General Terms and Conditions.
- 2.2 No later than one hundred and eighty (180) days prior to the expiration of this Agreement, the Parties agree to commence negotiations with regard to the terms, conditions, and prices of a follow-on agreement for the provision of Services and Elements to be effective on or before the expiration date of this Agreement ("Follow-on Agreement"). The Parties further agree that any such

Follow-on Agreement shall be for a term of no less than three (3) years unless the Parties agree otherwise.

2.3 If, within one hundred and thirty-five (135) days of commencing the negotiation referenced to Section 2.2, above, the Parties are unable to satisfactorily negotiate new terms, conditions and prices, either Party may petition the Commission to establish an appropriate Follow-on Agreement pursuant to 47 U.S.C. § 252. The Parties agree that in such event they shall encourage the Commission to issue its order regarding such Follow-on Agreement no later than the expiration date of this Agreement. The Parties further agree that in the event the Commission does not issue its order by the expiration date of this Agreement, or if the Parties continue beyond the expiration date of this Agreement to negotiate without Commission intervention, the terms, conditions and prices ultimately ordered by the Commission, or negotiated by the Parties, will be effective, retroactive to the day following the expiration date of this Agreement . Until the Follow-on Agreement becomes effective, BellSouth shall provide Services and Elements pursuant to the terms, conditions and prices of this Agreement that are then in effect. Prior to filing a Petition pursuant to this Section 2.3, the Parties agree to utilize the informal dispute resolution process provided in Section 3 of Attachment 1.

3. <u>Termination of Agreement; Transitional Support</u>

- 3.1 HTI may terminate any Local Service(s), Network Element(s), Combination(s), or Ancillary Function(s) provided under this Agreement upon thirty (30) days written notice to BellSouth unless a different notice period or different conditions are specified for termination of such Local Services(s), Network Element(s), or Combination(s) in this Agreement or pursuant to any applicable tariff, in which event such specific period or conditions shall apply, provided such period or condition is reasonable, nondiscriminatory and narrowly tailored. Where there is no such different notice period or different condition specified, HTI's liability shall be limited to payment of the amounts due for any terminated Local Service(s), Network Element(s), Combination(s) or Ancillary Service provided up to and including the date of termination. Notwithstanding the foregoing, the provisions of section 10, infra, shall still apply. Upon termination, BellSouth agrees to cooperate in an orderly and efficient transition to HTI or another vendor such that the level and quality of the Services and Elements is not degraded and to exercise its best efforts to effect an orderly and efficient transition. HTI agrees that it may not terminate the entire Agreement pursuant to this section.
- 3.2 If a Party is in breach of a material term or condition of this Agreement ("Defaulting Party"), the other Party shall provide written notice of such breach to the Defaulting Party. The Defaulting Party shall have ten (10) business days from receipt of notice to cure the breach. If the breach is not cured, the

Parties shall follow the dispute resolution procedure of Section 16 of the General Terms and Conditions and Attachment 1. If the Arbitrator determines that a breach has occurred and the Defaulting Party fails to comply with the decision of the Arbitrator within the time period provided by the Arbitrator (or a period of thirty (30) days if no time period is provided for in the Arbitrator's order), this Agreement may be terminated in whole or part by the other Party upon sixty (60) days prior written notice.

4. Good Faith Performance

In the performance of their obligations under this Agreement, the Parties shall act in good faith and consistently with the intent of the Act. Where notice, approval or similar action by a Party is permitted or required by any provision of this Agreement, (including, without limitation, the obligation of the Parties to further negotiate the resolution of new or open issues under this Agreement) such action shall not be unreasonably delayed, withheld or conditioned.

5. Option to Obtain Local Services, Network Elements and Combinations Under Other Agreements

If as a result of any proceeding or filing before any Court, State Commission, or the Federal Communications Commission, voluntary agreement or arbitration proceeding pursuant to the Act or pursuant to any applicable state law, BellSouth becomes obligated to provide Services and Elements, whether presently covered by this Agreement, to a third Party at rates or on terms and conditions different than the provisions of this Agreement, HTI shall have the option to substitute the third Parties interconnection agreement in the entirety for this Agreement and this Agreement shall thereupon became null and void. BellSouth shall provide to HTI any BellSouth agreement between BellSouth and any third Party within fifteen (15) days of the filing of such agreement with any state Commission.

6. Responsibility of Each Party

Each Party is an independent contractor, and has and hereby retains the right to exercise full control of and supervision over its own performance of its obligations under this Agreement and retains full control over the employment, direction, compensation and discharge of all employees assisting in the performance of such obligations. Each Party will be solely responsible for all matters relating to payment of such employees, including compliance with social security taxes, withholding taxes and all other regulations governing such matters. Each Party will be solely responsible for proper handling, storage, transport and disposal at its own expense of all (i) substances or materials that it or its contractors or agents bring to, create or assume control over at Work Locations or, (ii) Waste resulting therefrom or otherwise

generated in connection with its or its contractors' or agents' activities at the Work Locations. Subject to the limitations on liability and except as otherwise provided in this Agreement, each Party shall be responsible for (i) its own acts and performance of all obligations imposed by Applicable Law in connection with its activities, legal status and property, real or personal and, (ii) the acts of its own affiliates, employees, agents and contractors during the performance of that Party's obligations hereunder.

7. Governmental Compliance

- 7.1 HTI and BellSouth each shall comply at its own expense with all Applicable Law that relates to (i) its obligations under or activities in connection with this Agreement or (ii) its activities undertaken at, in connection with or relating to Work Locations. HTI and BellSouth each agree to indemnify, defend (at the other Party's request) and save harmless the other, each of its officers. directors and employees from and against any losses, damages, claims. demands, suits, liabilities, fines, penalties and expenses (including reasonable attorneys' fees) that arise out of or result from (i) its failure or the failure of its contractors or agents to so comply or (ii) any activity, duty or status of it or its contractors or agents that triggers any legal obligation to investigate or remediate environmental contamination. BellSouth, at its own expense, will be solely responsible for obtaining from governmental authorities, building owners, other carriers, and any other persons or entities, all rights and privileges (including, but not limited to, space and power), which are necessary for BellSouth to provide the Services and Elements pursuant to this Agreement. HTI, at its own expense, will be solely responsible for obtaining from governmental authorities, building owners, other carriers, and any other persons or entities, all rights and privileges which are HTI's obligation as a provider of telecommunications services to its Customers pursuant to this Agreement.
- 7.2 BellSouth shall accept orders for Service and Elements in accordance with the Federal Communications Commission Rules or State Commission Rules.

8. Responsibility For Environmental Contamination

HTI shall in no event be liable to BellSouth for any costs whatsoever resulting from the presence or Release of any Environmental Hazard or Hazardous Materials that HTI did not introduce to the affected Work Location so long as HTI's actions do not cause or substantially contribute to the release of any Environmental Hazard or Hazardous Materials. BellSouth shall indemnify, defend (at HTI's request) and hold harmless HTI, each of its officers, directors and employees from and against any losses, damages, claims, demands, suits, liabilities, fines, penalties and expenses (including reasonable attorneys' fees) that arise out of or result from (i) any Environmental Hazard or Hazardous

Materials that BellSouth, its contractors or agents introduce to the Work Locations or (ii) the presence or Release of any Environmental Hazard or Hazardous Materials for which BellSouth is responsible under Applicable Law, to the extent the release of any Environmental Hazard or Hazardous Materials is not caused or substantially contributed to by HTI's actions.

BellSouth shall in no event be liable to HTI for any costs whatsoever resulting from the presence or Release of any Environmental Hazard or Hazardous Materials that BellSouth did not introduce to the affected Work Location, so long as BellSouth's actions do not cause or substantially contribute to the release of any Environmental Hazards or Hazardous Materials. HTI shall indemnify, defend (at BellSouth's request) and hold harmless BellSouth, each of its officers, directors and employees from and against any losses, damages, claims, demands, suits, liabilities, fines, penalties and expenses (including reasonable attorneys' fees) that arise out of or result from (i) any Environmental Hazard or Hazardous Materials that HTI, its contractors or agents introduce to the Work Locations or (ii) the presence or Release of any Environmental Hazard or Hazardous Materials for which HTI is responsible under Applicable Law, to the extent the release of any Environmental Hazard or Hazardous Materials is not caused or substantially contributed to by BellSouth's actions.

9. Regulatory Matters

- 9.1 BellSouth shall be responsible for obtaining and keeping in effect all Federal Communications Commission, State Commissions, franchise authority and other regulatory approvals that may be required in connection with the performance of its obligations under this Agreement. HTI shall be responsible for obtaining and keeping in effect all Federal Communications Commission, state regulatory Commission, franchise authority and other regulatory approvals that may be required in connection with its offering of services to HTI Customers contemplated by this Agreement. HTI shall reasonably cooperate with BellSouth in obtaining and maintaining any required approvals for which BellSouth is responsible, and BellSouth shall reasonably cooperate with HTI in obtaining and maintaining any required approvals for which HTI is responsible.
- In the event that BellSouth is required by any governmental authority to file a tariff or make another similar filing ("Filing") in order to implement this Agreement, BellSouth shall (I) consult with HTI reasonably in advance of such Filing about the form and substance of such Filing, (ii) provide to HTI its proposed tariff and obtain HTI's agreement on the form and substance of such Filing, and (iii) take all steps reasonably necessary to ensure that such Filing imposes obligations upon BellSouth that are no less favorable than those provided in this Agreement and preserves for HTI the full benefit of the rights otherwise provided in this Agreement. In no event shall BellSouth file any tariff to implement this Agreement that purports to govern Services and Elements

that is inconsistent with the rates and other terms and conditions set forth in this Agreement unless such rate or other terms and conditions are more favorable than those set forth in this Agreement.

In the event that any final and nonappealable legislative, regulatory, judicial or other legal action materially affects any material terms of this Agreement, or the ability of HTI or BellSouth to perform any material terms of this Agreement, HTI or BellSouth may, on thirty (30) days' written notice (delivered not later than thirty (30) days following the date on which such action has become legally binding and has otherwise become final and nonappealable) require that such terms be renegotiated, and the Parties shall renegotiate in good faith such mutually acceptable new terms as may be required. In the event that such new terms are not renegotiated within ninety (90) days after such notice, the Dispute shall be referred to the Alternative Dispute Resolution procedures set forth in Attachment 1.

10. Liability and Indemnity

- 10.1 Liabilities of BellSouth Unless expressly stated otherwise in this Agreement, the liability of BellSouth to HTI during any Contract Year resulting from any and all causes shall not exceed the amount due and owing by HTI to BellSouth during the Contract Year in which such cause arises or accrues.
- 10.2 Liabilities of HTI Unless expressly stated otherwise in this Agreement, the liability of HTI to BellSouth during any Contract Year resulting from any and all causes shall not exceed the amount due and owing by HTI to BellSouth during the Contract Year in which such cause arises or accrues.
- Each party shall, to the greatest extent permitted by Applicable Law, include in its local switched service tariff (if it files one in a particular State) or in any State where it does not file a local service tariff, in an appropriate contract with its customers that relates to the Services and Elements provided under this Agreement, a limitation of liability (i) that covers the other Party to the same extent the first Party covers itself and (ii) that limits the amount of damages a customer may recover to the amount charged the applicable customer for the service that gave rise to such loss.
- No Consequential Damages NEITHER HTI NOR BELLSOUTH SHALL BE LIABLE TO THE OTHER PARTY FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL, RELIANCE, OR SPECIAL DAMAGES SUFFERED BY SUCH OTHER PARTY (INCLUDING WITHOUT LIMITATION DAMAGES FOR HARM TO BUSINESS, LOST REVENUES, LOST SAVINGS, OR LOST PROFITS SUFFERED BY SUCH OTHER PARTIES), REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, WARRANTY, STRICT LIABILITY, OR TORT, INCLUDING WITHOUT LIMITATION NEGLIGENCE OF ANY KIND WHETHER ACTIVE OR PASSIVE, AND REGARDLESS OF

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WHETHER THE PARTIES KNEW OF THE POSSIBILITY THAT SUCH DAMAGES COULD RESULT. EACH PARTY HEREBY RELEASES THE OTHER PARTY AND SUCH OTHER PARTY'S SUBSIDIARIES AND AFFILIATES, AND THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES AND AGENTS FROM ANY SUCH CLAIM. NOTHING CONTAINED IN THIS SECTION 10 SHALL LIMIT BELLSOUTH'S OR HTI'S LIABILITY TO THE OTHER FOR (i) WILLFUL OR INTENTIONAL MISCONDUCT (INCLUDING GROSS NEGLIGENCE); (ii) BODILY INJURY, DEATH OR DAMAGE TO TANGIBLE REAL OR TANGIBLE PERSONAL PROPERTY PROXIMATELY CAUSED BY BELLSOUTH'S OR HTI'S NEGLIGENT ACT OR OMISSION OR THAT OF THEIR RESPECTIVE AGENTS, SUBCONTRACTORS OR EMPLOYEES, NOR SHALL ANYTHING CONTAINED IN THIS SECTION 10 LIMIT THE PARTIES' INDEMNIFICATION OBLIGATIONS AS SPECIFIED HEREIN.

10.5 Obligation to Indemnify - Each Party shall, and hereby agrees to, defend at the other's request, indemnify and hold harmless the other Party and each of its officers, directors, employees and agents (each, an "Indemnitee") against and in respect of any loss, debt, liability, damage, obligation, claim, demand, judgment or settlement of any nature or kind, known or unknown, liquidated or unliquidated, including without limitation all reasonable costs and expenses incurred (legal, accounting or otherwise) (collectively, "Damages") arising out of, resulting from or based upon any pending or threatened claim, action, proceeding or suit by any third Party (a "Claim") (i) alleging any breach of any representation, warranty or covenant made by such indemnifying Party (the "Indemnifying Party") in this Agreement, (ii) based upon injuries or damage to any person or property or the environment arising out of or in connection with this Agreement that are the result of the Indemnifying Party's actions, breach of Applicable Law, or status of its employees, agents and subcontractors, or (iii) for actual or alleged infringement of any patent, copyright, trademark, service mark, trade name, trade dress, trade secret or any other intellectual property right, now known or later developed (referred to as "Intellectual Property Rights") to the extent that such claim or action arises from HTI or HTI's Customer's use of the Services and Elements provided under this Agreement.

Obligation to Defend; Notice; Cooperation - Whenever a Claim shall arise for indemnification under this Section 10, the relevant Indemnitee, as appropriate, shall promptly notify the Indemnifying Party and request the Indemnifying Party to defend the same. Failure to so notify the Indemnifying Party shall not relieve the Indemnifying Party of any liability that the Indemnifying Party might have, except to the extent that such failure prejudices the Indemnifying Party's ability to defend such Claim. The Indemnifying Party shall have the right to defend against such liability or assertion in which event the Indemnifying Party shall give written notice to the Indemnitee of acceptance of the defense of such Claim and the identity of counsel selected by the

Indemnifying Party. Except as set forth below, such notice to the relevant Indemnitee shall give the Indemnifying Party full authority to defend, adjust, compromise or settle such Claim with respect to which such notice shall have been given, except to the extent that any compromise or settlement shall prejudice the Intellectual Property Rights of the relevant Indemnitees. The Indemnifying Party shall consult with the relevant Indemnitee prior to any compromise or settlement that would affect the Intellectual Property Rights or other rights of any Indemnitee, and the relevant Indemnitee shall have the right to refuse such compromise or settlement and, at the refusing Party's or refusing Parties' cost, to take over such defense, provided that in such event the Indemnifying Party shall not be responsible for, nor shall it be obligated to indemnify the relevant Indemnitee against, any cost or liability in excess of such refused compromise or settlement. With respect to any defense accepted by the Indemnifying Party, the relevant Indemnitee shall be entitled to participate with the Indemnifying Party in such defense if the Claim requests equitable relief or other relief that could affect the rights of the Indemnitee and also shall be entitled to employ separate counsel for such defense at such Indemnitee's expense. In the event the Indemnifying Party does not accept the defense of any indemnified Claim as provided above, the relevant Indemnitee shall have the right to employ counsel for such defense at the expense of the Indemnifying Party. Each Party agrees to cooperate and to cause its employees and agents to cooperate with the other Party in the defense of any such Claim and the relevant records of each Party shall be available to the other Party with respect to any such defense.

11. Audits and Inspections

- For carrier billing purposes, the Parties have agreed pursuant to Section 12 of Attachment 6, to create a process for pre-bill certification. Until such time as that process is in place, the audit process provided in Section 11.1 shall apply.
- Subject to BellSouth's reasonable security requirements and except as may be otherwise specifically provided in this Agreement, HTI may audit BellSouth's books, records and other documents once in each Contract Year for the purpose of evaluating the accuracy of BellSouth's billing and invoicing. HTI may employ other persons or firms for this purpose. Such audit shall take place at a time and place agreed on by the Parties no later than thirty (30) days after notice thereof to BellSouth.
- BellSouth shall promptly correct any billing error that is revealed in an audit, including making refund of any overpayment by HTI in the form of a credit on the invoice for the first full billing cycle after the Parties have agreed upon the accuracy of the audit results. Any Disputes concerning audit results shall be resolved pursuant to the Alternate Dispute Resolution procedures described in Section 16 of the General Terms and Conditions and Attachment 1.

- BellSouth shall cooperate fully in any such audit, providing reasonable access to any and all appropriate BellSouth employees and books, records and other documents reasonably necessary to assess the accuracy of BellSouth's bills.
- HTI may audit BellSouth's books, records and documents more than once during any Contract Year if the previous audit found previously uncorrected net variances or errors in invoices in BellSouth's favor with an aggregate value of at least two percent (2%) of the amounts payable by HTI for Services and Elements or Combinations provided during the period covered by the audit.
- Audits shall be at HTI's expense, subject to reimbursement by BellSouth in the event that an audit finds an adjustment in the charges or in any invoice paid or payable by HTI hereunder by an amount that is, on an annualized basis, greater than two percent (2%) of the aggregate charges for the Services and Elements during the period covered by the audit.
- 11.1.6 Upon (i) the discovery by BellSouth of overcharges not previously reimbursed to HTI or (ii) the resolution of disputed audits, BellSouth shall promptly reimburse HTI the amount of any overpayment times the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the date of overpayment to and including the date that payment is actually made. In no event, however, shall interest be assessed on any previously assessed or accrued late payment charges.
- Subject to reasonable security requirements, either Party may audit the books, records and other documents of the other for the purpose of evaluating usage pertaining to transport and termination of local traffic. Where such usage data is being transmitted through CABS, the audit shall be conducted in accordance with CABS or other applicable requirements approved by the appropriate State Commission. If data is not being transferred via CABS, either Party may request an audit for such purpose once each Contract Year. Either Party may employ other persons or firms for this purpose. Any such audit shall take place no later than thirty (30) days after notice thereof to the other Party.
- Either Party shall promptly correct any reported usage error that is revealed in an audit, including making payment of any underpayment after the Parties have agreed upon the accuracy of the audit results. Any Disputes concerning audit results shall be resolved pursuant to the Alternate Dispute Resolution procedures described in Section 16 of the General Terms and Conditions and Attachment 1.
- The Parties shall cooperate fully in any such audit, providing reasonable access to any and all appropriate employees and books, records and other

documents reasonably necessary to assess the usage pertaining to transport and terminating of local traffic.

12. Performance Measurement

- In providing Services and Elements, BellSouth will provide HTI with the quality of service BellSouth provides itself and its end-users. BellSouth's performance under this Agreement shall provide HTI with the capability to meet standards or other measurements that are at least equal to the level that BellSouth provides or is required to provide by law or its own internal procedures. BellSouth shall satisfy all service standards, measurements, and performance requirements set forth in the Agreement and the measurements specified in Attachment 12 of this Agreement. Any conflict between the standards, measurements, and performance requirements BellSouth provides itself and the standards, measurements and performance requirements set forth in Attachment 12 shall be resolved in favor of the higher standard, measurement and performance.
- The Parties acknowledge that the need will arise for changes to the measurements specified in Attachment 12 during the term of this Agreement. Such changes may include the addition or deletion of measurements or a change in the performance standard for any particular metric, as well as the provision of target performance levels, as set forth in Attachment 12. Unless otherwise specified in Attachment 12, the parties agree to review all measurements on a quarterly basis to determine if any changes are appropriate, and may include the provision to HTI of any additional measurements BellSouth may provide itself.
- The Parties agree to monitor actual performance on a monthly basis and, if the Parties conclude it is required, develop a process improvement plan to improve quality of service provided as measured by the performance measurements, if necessary. Such a plan shall be developed where BellSouth's performance falls below either the level of performance it provides itself or the level of performance required in Attachment 12.

DELETED

Force Majeure

Neither Party shall be liable for any delay or failure in performance of any part of this Agreement caused by a Force Majeure condition, including acts of the United States of America or any state, territory or political subdivision thereof, acts of God or a public enemy, fires, floods, disputes, freight embargoes, strikes, earthquakes, volcanic actions, wars, civil disturbances, or other causes beyond the reasonable control of the Party claiming excusable delay or other failure to perform. Force Majeure shall not include acts of any Governmental Authority relating to environmental, health or safety conditions at Work

Locations. If any Force Majeure condition occurs, the Party whose performance fails or is delayed because of such Force Majeure condition shall give prompt notice to the other Party, and upon cessation of such Force Majeure condition, shall give like notice and commence performance hereunder as promptly as reasonably practicable.

Notwithstanding Subsection 1, no delay or other failure to perform shall be excused pursuant to this Section 14 by the acts or omission of a Party's subcontractors, material persons, suppliers or other third persons providing products or services to such Party unless: (i) such acts or omissions are themselves the product of a Force Majeure condition, (ii) such acts or omissions do not relate to environmental, health or safety conditions at Work Locations and, (iii) unless such delay or failure and the consequences thereof are beyond the control and without the fault or negligence of the Party claiming excusable delay or other failure to perform. Notwithstanding the foregoing, this Section 14 shall not excuse failure or delays where BellSouth is required to implement Disaster Recovery plans to avoid such failures and delays in performance.

15. Certain Federal, State and Local Taxes

Definition For purposes of this Section 15, the terms "taxes" and "fees" shall include but not be limited to federal, state or local sales, use, excise, gross receipts or other taxes or tax-like fees of whatever nature and however designated (including tariff surcharges and any fees, charges or other payments, contractual or otherwise, for the use of public streets or rights of way, whether designated as franchise fees or otherwise) imposed on, or sought to be imposed, either of the parties and measured by the charges or payments, for the services furnished hereunder, excluding any taxes levied on income.

15.2 Taxes And Fees Imposed Directly On Either Seller Or Purchaser

- Taxes and fees imposed on the providing Party, which are neither permitted nor required to be passed on by the providing Party to its Customer, shall be borne and paid by the providing Party.
- 15.2.2 Taxes and fees imposed on the purchasing Party, which are not required to be collected and/or remitted by the providing Party, shall be borne and paid by the purchasing Party.
- 15.3 Taxes And Fees Imposed On Purchaser But Collected And Remitted By Seller

- Taxes and fees imposed on the purchasing Party shall be borne by the purchasing Party, even if the obligation to collect and/or remit such taxes or fees is placed on the providing Party.
- To the extent permitted by Applicable Law, any such taxes and/or fees shall be shown as separate items on applicable billing documents between the Parties. Notwithstanding the foregoing, the purchasing Party shall remain liable for any such taxes and fees regardless of whether they are actually billed by the providing Party at the time that the respective service is billed.
- 15.3.3 If the purchasing Party determines that in its opinion any such taxes or fees are not lawfully due, the providing Party shall not bill such taxes or fees to the purchasing Party if the purchasing Party provides written certification, reasonably satisfactory to the providing Party, stating that it is exempt or otherwise not subject to the tax or fee, setting forth the basis therefor, and satisfying any other requirements under applicable law. If any authority seeks to collect any such tax or fee that the purchasing Party has determined and certified not to be lawfully due, or any such tax or fee that was not billed by the providing Party, the purchasing Party may contest the same in good faith, at its own expense. In the event that such contest must be pursued in the name of the providing Party, the providing Party shall permit the purchasing Party to pursue the contest in the name of providing Party and providing Party shall have the opportunity to participate fully in the preparation of such contest. In any such contest, the purchasing Party shall promptly furnish the providing Party with copies of all filings in any proceeding, protest, or legal challenge, all rulings issued in connection therewith, and all correspondence between the purchasing Party and the taxing authority.
- In the event that all or any portion of an amount sought to be collected must be paid in order to contest the imposition of any such tax or fee, or to avoid the existence of a lien on the assets of the providing Party during the pendency or such contest, the purchasing Party shall be responsible for such payment and shall be entitled to the benefit of any refund or recovery.
- 15.3.5 If it is ultimately determined that any additional amount of such a tax or fee is due to the imposing authority, the purchasing Party shall pay such additional amount, including any interest and penalties thereon.
- 15.3.6 Notwithstanding any provision to the contrary, the purchasing Party shall protect, indemnify and hold harmless (and defend at the purchasing Party's expense) the providing Party from and against any such tax or fee, interest or penalties thereof, or other charges or payable expenses (including reasonable attorney fees) with respect thereto, which are reasonably and necessarily incurred by the providing Party in connection with any claim for or contest of any such tax or fee.

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

15.4 Taxes And Fees Imposed On Seller But Passed On To Purchaser

- 15.4.1 Taxes and fees imposed on the providing Party, which are permitted or required to be passed on by the providing Party to its Customer, shall be borne by the purchasing Party.
- To the extent permitted by applicable law, any such taxes and/or fees shall be shown as separate items on applicable billing documents between the Parties. Notwithstanding the foregoing, the purchasing Party shall remain liable for any such taxes and fees regardless of whether they are actually billed by the providing Party at the time that the respective service is billed.
- 15.4.3 If the purchasing Party disagrees with the providing Party's determination as to the application or basis for any such tax or fee, the Parties shall consult with respect to the imposition and billing of such tax or fee and with respect to whether to contest the imposition of such tax or fee. Notwithstanding the foregoing, the providing Party shall retain responsibility for determining whether and to what extent any such taxes or fees are applicable. The providing Party shall further retain responsibility for determining whether and how to contest the imposition of such taxes or fees, provided, however, the Parties agree to consult in good faith as to such contest and that any such contest undertaken at the request of the purchasing Party shall be at the purchasing Party's expense. In the event that such contest must be pursued in the name of the providing Party, providing Party shall permit purchasing Party to pursue the contest in the name of the providing Party and the providing Party shall have the opportunity to participate fully in the preparation of such contest.
- If, after consultation in accordance with the preceding Section 15.4.3, the purchasing Party does not agree with the providing Party's final determination as to the application or basis of a particular tax or fee, and if the providing Party, after receipt of a written request by the purchasing Party to contest the imposition of such tax or fee with the imposing authority, fails or refuses to pursue such contest or to allow such contest by the purchasing Party, the purchasing Party may utilize the dispute resolution process outlined in Section 16 of the General Terms and Conditions of this Agreement and Attachment 1. Utilization of the dispute resolution process shall not relieve the purchasing party from liability for any tax or fee billed by the providing Party pursuant to this subsection during the pendency of such dispute resolution proceeding. In

the event that the purchasing Party prevails in such dispute resolution proceeding, it shall be entitled to a refund in accordance with the final decision therein. Notwithstanding the foregoing, if at any time prior to a final decision in such dispute resolution proceeding the providing Party initiates a contest with the imposing authority with respect to any of the issues involved in such dispute resolution proceeding, the dispute resolution proceeding shall be dismissed as to such common issues and the final decision rendered in the contest with the imposing authority shall control as to such issues.

- In the event that all or any portion of an amount sought to be collected must be paid in order to contest the imposition of any such tax or fee with the imposing authority, or to avoid the existence of a lien on the assets of the providing Party during the pendency of such contest, the purchasing Party shall be responsible for such payment and shall be entitled to the benefit of any refund or recovery.
- 15.4.6 If it is ultimately determined that any additional amount of such a tax or fee is due to the imposing authority, the purchasing Party shall pay such additional amount, including any interest and penalties thereon.
- 15.4.7 Notwithstanding any provision to the contrary, the purchasing Party shall protect, indemnify and hold harmless (and defend at the purchasing Party's expense) the providing Party from and against any such tax or fee, interest or penalties thereon, or other reasonable charges or payable expenses (including reasonable attorney fees) with respect thereto, which are incurred by the providing Party in connection with any claim for or contest of any such tax or fee.
- 15.4.8 Each Party shall notify the other Party in writing of any assessment, proposed assessment or other claim for any additional amount of such a tax or fee by a taxing authority, such notice to be provided, if possible, at least ten (10) days prior to the date by which a response, protest or other appeal must be filed, but in no event later than thirty (30) days after receipt of such assessment, proposed assessment or claim.

15.5 Mutual Cooperation

In any contest of a tax or fee by one Party, the other Party shall cooperate fully by providing records, testimony and such additional information or assistance as may reasonably be necessary to pursue the contest. Further, the other Party shall be reimbursed for any reasonable and necessary out-of-pocket copying and travel expenses incurred in assisting in such contest. Each Party agrees to indemnify and hold harmless the other Party from and against any losses, damages, claims, demands, suits, liabilities, and expenses, including reasonable attorney's fees, that arise out of its failure to perform its obligations under this Section.

16. Alternative Dispute Resolution

16.1 All disputes, claims or disagreements (collectively "Disputes") arising under or related to this Agreement or the breach hereof shall be resolved in accordance with the procedures set forth in Attachment 1, except: (i) disputes arising pursuant to Attachment 6, Connectivity Billing; and (ii) disputes or matters for which the Telecommunications Act of 1996 specifies a particular remedy or procedure. Disputes involving matters subject to the Connectivity Billing provisions contained in Attachment 6, shall be resolved in accordance with the Billing Disputes section of Attachment 6. In no event shall the Parties permit the pendency of a Dispute to disrupt service to any HTI Customer contemplated by this Agreement. The foregoing notwithstanding, neither this Section nor Attachment 1 shall be construed to prevent either Party from seeking and obtaining temporary equitable remedies, including temporary restraining orders. A request by a Party to a court or a regulatory authority for interim measures or equitable relief shall not be deemed a waiver of the obligation to comply with Attachment 1.

17. Notices

Any notices or other communications required or permitted to be given or delivered under this Agreement shall be in hard-copy writing (unless otherwise specifically provided herein) and shall be sufficiently given if delivered personally or delivered by prepaid overnight express service to the following (unless otherwise specifically required by this Agreement to be delivered to another representative or point of contact):

If to HTI:

Jerry James General Manager HTI 401 Carlson Circle San Marcus, TX 78666

If to BellSouth:

Randy Jenkins Interconnection Services Suite 410 1960 W. Exchange Place Tucker, GA 30064

Either Party may unilaterally change its designated representative and/or address for the receipt of notices by giving seven (7) days prior written notice to the other Party in compliance with this Section. Any notice or other communication shall be deemed given when received.

receipt from the Discloser; (b) after it becomes publicly known or available through no breach of this Agreement by the Recipient; (c) after it is rightfully acquired by the Recipient free of restrictions on its disclosure; or (d) after it is independently developed by personnel of the Recipient to whom the Discloser's Confidential Information had not been previously disclosed. In addition, either Party shall have the right to disclose Confidential Information to any mediator, arbitrator, state or federal regulatory body, the Department of Justice or any court in the conduct of any mediation, arbitration or approval of this Agreement or in any proceedings concerning the provision of interLATA services by BellSouth that are or may be required by the Act. Additionally, the Recipient may disclose Confidential Information if so required by law, a court, or governmental agency, so long as the Discloser has been notified of the requirement promptly after the Recipient becomes aware of the requirement. In all cases, the Recipient must undertake all lawful measures to avoid disclosing such information until Discloser has had reasonable time to seek and comply with a protective order that covers the Confidential Information to be disclosed.

- 18.6 Each Party's obligations to safeguard Confidential Information disclosed prior to expiration or termination of this Agreement shall survive such expiration or termination.
- 18.7 Except as otherwise expressly provided elsewhere in this Agreement, no license is hereby granted under any patent, trademark, or copyright, nor is any such license implied, solely by virtue of the disclosure of any Confidential Information.
- 18.8 Each Party agrees that the Discloser would be irreparably injured by a breach of this Agreement by the Recipient or its representatives and that the Discloser shall be entitled to seek equitable relief, including injunctive relief and specific performance, in the event of any breach of the provisions of this Agreement. Such remedies shall not be deemed to be the exclusive remedies for a breach of this Agreement, but shall be in addition to all other remedies available at law or in equity.

Branding

The Parties agree that the services offered by HTI that incorporate Services and Elements made available to HTI pursuant to this Agreement shall be branded as HTI services, unless BellSouth determines to unbrand such Services and Elements for itself, in which event BellSouth may provide unbranded Services and Elements. HTI shall provide the exclusive interface to HTI Customers, except as HTI shall otherwise specify. In those instances where HTI requires BellSouth personnel or systems to interface with HTI Customers, such personnel shall identify themselves as representing HTI, and

shall not identify themselves as representing BellSouth. Except for material provided by HTI, all forms, business cards or other business materials furnished by BellSouth to HTI Customers shall be subject to HTI's prior review and approval. In no event shall BellSouth, acting on behalf of HTI pursuant to this Agreement, provide information to HTI local service Customers about BellSouth products or services. BellSouth agrees to provide in sufficient time for HTI to review and provide comments, the methods and procedures, training and approaches, to be used by BellSouth to assure that BellSouth meets HTI's branding requirement. For installation and repair services, HTI agrees to provide BellSouth with branded material at no charge for use by BellSouth ("Leave Behind Material"). HTI will reimburse BellSouth for the reasonable and demonstrable costs BellSouth would otherwise incur as a result of the use of the generic leave behind material. BellSouth will notify HTJ of material supply exhaust in sufficient time that material will always be available. BellSouth may leave a generic card if BellSouth does not have an HTI specific card available. BellSouth will not be liable for any error, mistake or omission, other than intentional acts or omissions or gross negligence, resulting from the requirements to distribute HTI's Leave Behind Material.

20. Directory Listings Requirements

20.1 BellSouth shall make available to HTI, for HTI subscribers, non-discriminatory access to its telephone number and address directory listings ("Directory Listings"), under the below terms and conditions. In no event shall HTI subscribers receive Directory Listings that are at less favorable rates, terms or conditions than the rates, terms or conditions that BellSouth provides its subscribers.

20.1.1 **DELETED**

20.1.2 **DELETED**

Subject to execution of an Agreement between HTI and BellSouth's affiliate, BellSouth Advertising & Publishing Corporation ("BAPCO") substantially in the form set forth in Attachment 13: (1) listings shall be included in the appropriate White Pages or local alphabetical directories (including Foreign Language directories as appropriate), via the BellSouth ordering process, (basic listing shall be at no charge to HTI or HTI's subscribers); (2) HTI's business subscribers' listings shall also be included in the appropriate Yellow Pages or local classified directories, via the BellSouth ordering process, at no charge to HTI or HTI's subscribers; (3) copies of such directories shall be delivered by BAPCO to HTI's subscribers; (4) HTI will sell enhanced White Pages Listings to HTI subscribers and BellSouth shall provide the enhanced White Listings; and (5) Yellow Pages Advertising will be sold and billed to HTI subscribers.

- 20.1.4 BAPCO will provide HTI the necessary publishing information to process HTI's subscribers directory listings requests including, but not limited to:
 - Classified Heading Information
 - 2. Telephone Directory Coverage Areas by NPA/NXX
 - 3. Publishing Schedules
 - Processes for Obtaining Foreign Directories
 - Information about Listing HTI's Customer Services, including telephone numbers, in the Customer Call Guide Pages.
- BellSouth will provide HTI the proper format for submitting subscriber listings as outlined in the OLEC Handbook. BellSouth and BAPCO will accord HTI's directory listing information the same level of confidentiality that BellSouth and BAPCO accord BellSouth's and BAPCO'S own directory listing information, and BellSouth shall limit access to HTI's Customer proprietary, confidential directory information to those BellSouth or BAPCO employees who are involved in the preparation of listings.
- 20.3 BellSouth will include HTI subscriber listings in BellSouth's directory assistance databases and BellSouth will not charge HTI to maintain the Directory Assistance database. The Parties agree to cooperate with each other in formulating appropriate procedures regarding lead time, timeliness, format, and content of listing information.
- 20.4 DELETED
- 21. Subscriber List Information/Local Number Portability
- 21.1 DELETED
- 21.2 BellSouth shall refer any requests from third parties for HTI's Subscriber List Information to HTI.
- 21.3 Local Number Portability shall be provided as set forth in Attachment 8.
- 21.A Insurance Requirements

At all times during the term of this Agreement, each Party shall maintain, at its own expense, (i) all insurance required by applicable Law including insurance and approved self insurance for statutory workers compensation coverage and (ii) commercial general liability coverage in the amount of not less than ten million dollars (\$10,000,000) or a combination of commercial general liability and excess/umbrella coverage totaling ten million dollars (\$10,000,000). Upon

request from the other Party, each Party shall furnish the other Party with certificates of insurance which evidence the minimum levels of insurance set forth herein. Each Party may satisfy all or part of the coverage specified herein through self insurance. Each Party shall give the other Party at least thirty (30) days advance written notice of any cancellation or non-renewal of insurance required by this Section.

21.B Costs

Except as otherwise specified in this Agreement, the Act, or any-Commission order, each Party shall be responsible for all costs and expenses that it incurs to comply with its obligations under this Agreement.

21.B.1 DELETED

21.C Pre-Ordering Information

- 21.C.1 BellSouth shall provide HTI with access on a real-time basis via electronic interfaces to all services and features technically available from each switch, by switch CLLI and access to street address detail for the provisioning of a service request. This information is currently contained in BellSouth's Regional Street Address Guide ("RSAG") and Products and Services Inventory Management (P/SIMS).
- 21.C.2 If HTI dials in, HTI will obtain from BellSouth a security card featuring a unique password identification which will be changed periodically by BellSouth. A nonrecurring charge of One Hundred (\$100.00) Dollars will be applied to each security card provided, including duplicates furnished to additional users or furnished as a replacement of lost or stolen cards.
- 21.C.3 HTI acknowledges that (i) this information is provided for the limited purposes of facilitating the establishment of new Customer accounts and identifying services and features available in specific BellSouth central offices. HTI agrees that it will not sell or otherwise transfer such information to any third Party for any purpose whatsoever without the prior written consent of BellSouth: (ii) BellSouth does not warrant that services provided under this Section will be uninterrupted or error free. In the event of interruptions, delays, errors or other failure of the services, BellSouth's obligation shall be limited to using reasonable efforts under the circumstances to restore the services. BellSouth shall have no obligation to retrieve or reconstruct any transmitted messages or transmission data which may be lost or damaged. HTI is responsible for providing back-up for data deemed by BellSouth to be necessary to its operations; (iii) the services provided under this Section are provided "As Is." BellSouth makes no warranty, express or implied, with respect to the services, including but not limited to any warranty of

merchantability or fitness for a particular purpose, which warranties are hereby expressly disclaimed.

21.D Disaster Recovery

BellSouth and HTI agree to jointly develop and implement a detailed service restoration plan and disaster recovery plan to be in effect by December 31, 1997. A joint task team will commence development no later than November 1, 1996, for implementation throughout 1997 reaching full deployment by December 31, 1997.

Such plans shall incorporate BellSouth Emergency Contingency Plans for Residence and Business Repair Centers. The Plans shall conform to the FCC Restoration Guidelines, to the National Security Emergency Preparedness ("NSEP") procedures and adhere to the guidelines developed by the Telecommunications Service Priority ("TSP") System office within the National Communications System ("NCS") Agency.

In developing the plans, the team will address the following HTI proposed terms: (i) provision for immediate notification to HTI via the Electronic Interface, to be established pursuant to Section 3 of Attachment 6 of the Agreement, of the existence, location, and source of any emergency network outage affecting HTI Customers; (ii) establishment of a single point of contact responsible for initiating and coordinating the restoration of all Local Services and Network Elements or Combinations; (iii) establishment of procedures to provide HTI with real-time access to information relating to the status of restoration efforts and problem resolution during the restoration process; (iv) provision of an inventory and description of mobile restoration equipment by locations; (v) establishment of methods and procedures for the dispatch of mobile equipment to the restoration site; (vi) establishment of methods and procedures for re-provisioning all Services and Elements, after initial restoration; (vii) provision for equal priority, as between HTI Customers and BellSouth Customers, for restoration efforts, consistent with FCC Service Restoration guidelines, including, but not limited to, deployment of repair personnel and access to spare parts and components; and (viii) establishment of a mutually agreeable process for escalation of maintenance problems, including a complete, up-to-date list of responsible contacts, available twentyfour (24) hours per day, seven (7) days per week.

Such plans shall be modified and updated as necessary. For purposes of this Section, an emergency network outage is defined as 5,000 or more blocked call attempts in a ten (10) minute period in a single exchange.

In the event the Parties are unable to reach agreement on either plan, the matter shall be resolved pursuant to Section 16 and Attachment 1 of this Agreement.

22. Miscellaneous

22.1 Delegation or Assignment

BellSouth may not assign any of its rights or delegate any of its obligations under this Agreement without the prior written consent of HTI which will not be unreasonably withheld. Notwithstanding the foregoing, BellSouth may assign its rights and benefits and delegate its duties and obligations under this Agreement without the consent of HTI to a 100 percent owned Affiliate company of BellSouth if such Affiliate provides wireline communications, provided that the performance of any such assignee is guaranteed by the assignor. Any prohibited assignment or delegations shall be null and void.

22.2 Subcontracting

If any Party's obligation under this Agreement is performed by a subcontractor or Affiliate, the Party subcontracting the obligation nevertheless shall remain fully responsible for the performance of this Agreement in accordance with its terms, and shall be solely responsible for payments due its subcontractors or Affiliate. In entering into any contract, subcontract or other agreement for the performance of any obligation under this Agreement, the Party shall not enter into any agreement that it would not enter into if the supplier was performing services directly for said Party.

22.3 Nonexclusive Remedies

Except as otherwise expressly provided in this Agreement, each of the remedies provided under this Agreement is cumulative and is in addition to any remedies that may be available at law or in equity.

22.4 No Third-Party Beneficiaries

Except as may be specifically set forth in this Agreement, this Agreement does not provide and shall not be construed to provide third Parties with any remedy, claim, liability, reimbursement, cause of action, or other privilege.

22.5 Referenced Documents

Whenever any provision of this Agreement refers to a technical reference, technical publication, HTI Practice, BellSouth Practice, any publication of telecommunications industry administrative or technical standards, or any other document specifically incorporated into this Agreement, it will be deemed to be a reference to the most recent version or edition (including any amendments, supplements, addenda, or successors) of such document that is in effect, and will include the most recent version or edition (including any amendments, supplements, addenda, or successors) of each document incorporated by

reference in such a technical reference, technical publication, HTI Practice, BellSouth Practice, or publication of industry standards (unless HTI elects otherwise). Should there be an inconsistency between or among publications or standards, the Parties shall mutually agree upon which requirement shall apply. If the Parties cannot reach agreement, the matter shall be handled pursuant to Attachment 1 of this Agreement.

22.6 Applicable Law

The validity of this Agreement, the construction and enforcement of its terms, and the interpretation of the rights and duties of the Parties shall be governed by the laws of the State of Florida other than as to conflicts of laws, except insofar as federal law may control any aspect of this Agreement, in which case federal law shall govern such aspect. The Parties submit to personal jurisdiction in Atlanta, Georgia, and waive any objections to a Georgia venue.

22.7 Publicity and Advertising

Neither Party shall publish or use any advertising, sales promotions or other publicity materials that use the other Party's logo, trademarks or service marks without the prior written approval of the other Party.

22.8 Amendments or Waivers

Except as otherwise provided in this Agreement, no amendment or waiver of any provision of this Agreement, and no consent to any default under this Agreement, shall be effective unless the same is in writing and signed by an officer of the Party against whom such amendment, waiver or consent is claimed. In addition, no course of dealing or failure of a Party strictly to enforce any term, right or condition of this Agreement shall be construed as a waiver of such term, right or condition.

22.9 Severability

If any term, condition or provision of this Agreement is held to be invalid or unenforceable for any reason, such invalidity or unenforceability shall not invalidate the entire Agreement, unless such construction would be unreasonable. The Agreement shall be construed as if it did not contain the invalid or unenforceable provision or provisions, and the rights and obligations of each Party shall be construed and enforced accordingly; provided, however, that in the event such invalid or unenforceable provision or provisions are essential elements of this Agreement and substantially impair the rights or obligations of either Party, the Parties shall promptly negotiate a replacement provision or provisions.

22.10 Entire Agreement

This Agreement, which shall include the Attachments, Appendices and other documents referenced herein, constitutes the entire Agreement between the Parties concerning the subject matter hereof and supersedes any prior agreements, representations, statements, negotiations, understandings, proposals or undertakings, oral or written, with respect to the subject matter expressly set forth herein.

22.11 Survival of Obligations

Any liabilities or obligations of a Party for acts or omissions prior to the cancellation or termination of this Agreement, any obligation of a Party under the provisions regarding indemnification. Confidential Information, limitations on liability, and any other provisions of this Agreement which, by their terms, are contemplated to survive (or to be performed after) termination of this Agreement, shall survive cancellation or termination thereof.

22.12 Executed in Counterparts

This Agreement may be executed in any number of counterparts, each of which shall be deemed an original; but such counterparts shall together constitute one and the same instrument.

22.13 Headings of No Force or Effect

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

Part I: Local Services Resale

23. Telecommunications Services Provided for Resale

- At the request of HTI, and pursuant to the requirements of the Act, BellSouth will make available to HTI for resale (see Section 24.3 of Part 1) any Telecommunications Service that BellSouth currently provides, or may offer hereafter. BellSouth shall also provide Support Functions and Service Functions, as set forth in Sections 27 and 28 of this Part. The Telecommunications Services, Service Functions and Support Functions provided by BellSouth to HTI pursuant to this Agreement are collectively referred to as "Local Service." BellSouth will not bill HTI for any services not ordered by HTI.
- This Part describes several services which BellSouth shall make available to HTI for resale pursuant to this Agreement. This list of services is neither all inclusive nor exclusive. All Telecommunications Services of BellSouth which are to be offered for resale pursuant to the Act are subject to the terms herein, even though they are not specifically enumerated or described.

23.2.1 Features and Functions Subject to Resale

BellSouth agrees to make available for resale all features and functions available in connection with Telecommunications Services, including but not limited to the following:

Dial tone and ring Capability for either dial pulse or touch tone recognition Capability to complete calls to any location Same extended local calling area 1+ IntraLATA toll calling PIC 1+ service CIC dialing (10 XXXX) Same access to vertical features and functions Call detail recording capability required for end user billing Flat and Measured Service International Calling 911, 500, 700, 800, 888, 900, 976 dialing Ringing Repeat dial capability Multi-line hunting PBX trunks and DID service

23.3 BellSouth will provide HTI with at least the capability to provide an HTI
Customer the same experience as BellSouth provides its own Customers with
respect to all Local Services. The capability provided to HTI by BellSouth shall
be in accordance with standards or other measurements that are at least equal

to the level that BellSouth provides or is required to provide by law and its own internal procedures.

24. General Terms and Conditions for Resale

24.1 Primary Local Exchange Carrier Selection

BellSouth shall apply the principles set forth in Section 64.1100 of the Federal Communications Commission Rules, 47 C.F.R. §64.1100, to the process for end-user selection of a primary local exchange carrier. BellSouth shall not require a disconnect order from the Customer, another carrier, or another entity, in order to process an HTI order for Local Service for a Customer.

24.2 Pricing

The prices charged to HTI for Local Service are set forth in Part IV of this Agreement.

24.3 Restrictions on Resale

With the exception of short-term promotions, defined as those promotions that are offered for a ninety (90) day period or less and which are not offered on a consecutive basis, BellSouth shall offer for resale at wholesale prices all telecommunications services that BellSouth provides at retail to non-telecommunications carriers, including governmental bodies and information providers. Short-term promotions may be resold at the retail rate. Long term promotions, defined as those promotions that are offered for more than a ninety (90) day period, may be resold at the tariff rate less the wholesale discount.

No terms and conditions, including use and user restrictions, shall be applicable to the resale of BellSouth's telecommunications services except for:

- a restriction on the resale of residential service to residential customers;
- (ii) LifeLine/Link-up services shall be available for resale by HTI only to those customers who are eligible to purchase such service directly from BellSouth;
- (iii) All grandfathered services are available for resale by HTI to those customers or subscribers who already have grandfathered status;
 and
- (iv) N11/E911/911 services shall be available for resale by HTI.

24.3.1 Dialing Parity

24.3.1.1 BellSouth agrees that HTI Customers will experience the same dialing parity as BellSouth's Customers, such that, for all call types: (i) an HTI Customer is not required to dial any greater number of digits than a BellSouth Customer; (ii) the post-dial delay (time elapsed between the last digit dialed and the first network response), call completion rate and transmission quality experienced by an HTI Customer is at least equal in quality to that experienced by a BellSouth Customer; and (iii) the HTI Customer may retain its local telephone number.

24.3.2 Changes in Retail Service

- 24.3.2.1 BellSouth agrees to notify HTI electronically of any changes in the terms and conditions under which it offers Telecommunications Services to subscribers who are non-telecommunications carriers, including, but not limited to, the introduction or discontinuance of any features, functions, services or promotions, at least forty-five (45) days prior to the effective date of any such change or concurrent with BellSouth's internal notification process for such change, whichever is earlier. HTI recognizes that certain revisions may occur between the time BellSouth notifies HTI of a change pursuant to this Section and BellSouth's tariff filing of such change. BellSouth shall notify HTI of such revisions consistent with BellSouth's internal notification process but HTI accepts the consequences of such mid-stream changes as an uncertainty of doing business and, therefore, will not hold BellSouth responsible for any resulting inconvenience or cost incurred by HTI unless caused by the intentional misconduct of BellSouth for the purposes of this section. The notification given pursuant to this Section will not be used by either party to market its offering of such changed services externally in advance of BellSouth filing of any such changes.
- 24.3.2.2 BellSouth agrees to notify HTI electronically of proposed price changes at least thirty (30) days prior to the effective date of any such price change.
- 24.3.2.3 BellSouth agrees to use electronic mail to notify HTI of any operational changes within at least six (6) months before such changes are proposed to become effective and within twelve months for any technological changes. If such operational or technological changes occur within the six or twelve month notification period, BellSouth will notify HTI of the changes concurrent with BellSouth's internal notification process for such changes.

25. Requirements for Specific Services

25.1 CENTREX Requirements

At HTI's option, HTI may purchase CENTREX services. Where HTI purchases such CENTREX services, HTI may purchase the entire set of features, any single feature, or any combination of features which BellSouth has the capability to provide. BellSouth will provide HTI with the same service levels

and features of CENTREX Service provided by BellSouth to its end users. Requests by HTI for CENTREX Service levels and features that are different from what BellSouth provides to its end users will be handled under the Bona Fide Request Process. The CENTREX service provided for resale will meet the following requirements:

- 25.1.1 All features and functions of CENTREX Service, whether offered under tariff or otherwise, shall be available to HTI for resale, without any geographic or Customer class restrictions.
- 25.1.2 BellSouth's CENTREX Service may be used by HTI to provide Local Service to HTI's end users
- 25.1.3 BellSouth shall provide to HTI a list which describes all CENTREX features and functions offered by BellSouth within ten (10) days of the Effective Date, and shall provide updates to said list as required by Section 24.3.2 of Part 1.

25.1.4 **DELETED**

- 25.1.5 HTI may aggregate the CENTREX local exchange and IntraLATA traffic usage of HTI Customers to qualify for volume discounts on the basis of such aggregated usage.
- 25.1.6 HTI may aggregate multiple HTI Customers on dedicated access facilities. HTI may require that BellSouth suppress the need for HTI Customers to dial "9" when placing calls outside the CENTREX System. When dedicated facilities are utilized, BellSouth will provide, upon HTI's request, station ID or ANI, as well as FGD trunking.
- 25.1.7 HTI may use remote call forwarding in conjunction with CENTREX Service to provide service to HTI Local Service Customers residing outside of the geographic territory in which BellSouth provides local exchange service. In cases where existing BellSouth Customers choose HTI for their local service provider, and where HTI serves these Customers via CENTREX, in order that such Customers may keep the same phone number, BellSouth shall either move Customer's line and phone number to a CENTREX system, or use remote call forwarding to route Customer's old phone number to new CENTREX phone number. Not all features and functions will be compatible when remote call forwarding is utilized. In such cases, HTI customers shall have the same functionality as BellSouth customers under the same circumstances.

25.1.8 **DELETED**

- 25.1.9 BellSouth shall make available to HTI for resale, at no additional charge, intercom calling among all HTI Customers who utilize resold CENTREX service where the HTI Customers' numbers all reside in the same central office switch.
- 25.1.10 HTI may utilize BellSouth's Automatic Route Selection (ARS) service features to provision and route calls from various end users to various Interexchange Carriers (IXC) Networks.

25.2 CLASS and Custom Features Requirements

HTI may purchase the entire set of CLASS and Custom features_and functions, or a subset of any one or any combination of such features, on a Customer-specific basis, without restriction on the minimum or maximum number of lines or features that may be purchased for any one level of service. BellSouth shall provide to HTI a list of all such CLASS and Custom features and functions within ten (10) days of the Effective Date and shall provide updates to such list when new features and functions become available.

25.3 Voluntary Federal and State Customer Financial Assistance Programs

Local Services provided to low-income subscribers, pursuant to requirements established by the appropriate state regulatory body, include programs such as Voluntary Federal Customer Financial Assistance Program and Link-Up America ("Voluntary Federal Customer Financial Assistance Programs"). When a BellSouth Customer eligible for the Voluntary Federal Customer Financial Assistance Program or other similar state programs chooses to obtain Local Service from HTI, BellSouth shall forward available information regarding such Customer's eligibility to participate in such programs to HTI, in accordance with procedures to be mutually established by the Parties and applicable state and federal law.

25.4 E911/911 Services

BellSouth shall provide access to E911/911 in the same manner that it is provided to BellSouth Customers. BellSouth will enable HTI Customers to have E911/911 call routing to the appropriate Public Safety Answering Point (PSAP). BellSouth shall provide and validate HTI Customer information to the PSAP. BellSouth shall use its service order process to update and maintain, on the same schedule that it uses for its end users, the HTI Customer service information in the ALI/DMS (Automatic Location Identification/Database Management System) used to support E911/911 services.

25.4:1 **DELETED**

25.4.2 Telephone Relay Service

Where BellSouth provides to speech and hearing-impaired callers a service that enables callers to type a message into a telephone set equipped with a

keypad and message screen and to have a live operator read the message to a recipient and to type message recipient's response to the speech or hearing-impaired caller ("Telephone Relay Service"), BellSouth shall make such service available to HTI at no additional charge, for use by HTI Customers who are speech or hearing-impaired. If BellSouth maintains a record of Customers who qualify under any applicable law for Telephone Relay Service, BellSouth shall make such data available to HTI as it pertains to HTI Customers.

25.5 Contract Service Arrangements ("CSAS") 25.5.1 CSA's shall be available for resale at the wholesale discount. 25.5.2 If HTI identifies a specific CSA, BellSouth shall provide HTI a copy within ten (10) business days of HTI's request. 25.6 DELETED 25.7 DELETED 25.8 DELETED 25.9 DELETED 25.10 Nonrecurring Services

25.11 Inside Wire Maintenance Service

25.11.1 BellSouth shall provide Inside Wire Maintenance Service for resold services, but the resale discount will not apply.

BellSouth shall offer for resale all non-recurring services.

25.12 Pay Phone Service

25.10.1

BellSouth shall offer for resale, at a minimum, the following pay phone services: Coin Line (currently sold as SmartLinesm), COCOT Line Coin (currently sold as Independent Payphone Provider (IPP) Line), and COCOT Line Coinless (currently sold as IPP Line Coinless). To the extent BellSouth demonstrates that it does not provide the payphone features and functionality requested by HTI to BellSouth Customers, HTI may request that BellSouth provide such functionality pursuant to the Bona Fide Request Process identified in Section 1.1 of the General Terms and Conditions of this Agreement.

Billed Number Screening
Originating line screening
Ability to "freeze" PIC selection
One bill per line

Point of demarcation at the Network Interface location
Detailed billing showing all 1+ traffic on paper, diskette or
electronic format
Wire Maintenance option
Touchtone service
Option for listed or non-listed numbers
Access to 911 service
One directory per line
Access to ANI Information
Line and/or station monitoring and diagnostic routines

25.12.1 In addition, BellSouth shall offer for resale, at a minimum, the following features with its resold Coin Line service:

Access to all CO intelligence required to perform answer detection, coin collection, coin return, and disconnect.

Answer Detection

Option to block all 1+ calls to international destinations

IntraLATA Call Timing

Option of one way or two way service on line

Coin Refund and Repair Referral Service

Ability to block any 1+ service that cannot be rated by the coin circuits

HTI rate tables for local and intraLATA service

Option of Flat Rate Service or Measured Service or both

Protect against clip on fraud

Protect against blue box fraud

25.12.2 BellSouth shall offer for resale, at a minimum, the following features with its COCOT Line Coin and COCOT Line Coinless services:

Ability to keep existing serving telephone numbers if cutover to HTI Resale Line

Option of One Way or Two Way service on the line

Option of Flat Rate Service or Measured Service or both

25.12.3 BellSouth shall offer for resale, at a minimum, the following feature with its COCOT Line Coin service:

Blocking for 1+ international, 10XXXX1+ international, 101XXXX1+ international, 1+900, N11, 976

Option to block all 1-700 and 1-500 calls

Line side supervision option

25.12.4 BellSouth shall offer for resale, at a minimum, the following features with its COCOT Line Coinless service:

Blocking for 1+ international, 10XXXX1+ international, 101XXXX1+ international, 1+900, N11, 976, 7 or 10 digit local, 1+DDD

25.12.5 BellSouth shall offer for resale, at a minimum, the following features with its SemiPublic Coin service:

Ability to keep existing serving telephone numbers if cutover to HTI

Touchtone Service

Option for listed, nonlisted, or non published numbers

Provision 911 service

Access to ANI information

Access to all CO intelligence required to perform answer _ supervision, coin collect, coin return and disconnect

Far end disconnect recognition

Call timing

PIC protection for all 1+local, interLATA, and intraLATA traffic

Same call restrictions as available on BellSouth phones for interLATA, international, intraLATA, and local calling

One bill per line

Detailed billing showing all 1+ traffic in paper or electronic format

Option to have enclosure installed with set

One directory per line installed

Install the station to at least BellSouth standards

Ability to block any 1+ service that cannot be rated by the coin circuits

HTI to be the PIC for local and intraLATA calls

Option to block all 1+ international calls

Option of one way or two way service

Wire Maintenance option

HTI rate tables for local and intraLATA service

Option to have BellSouth techs collect, count, and deposit vault contents on behalf of HTI

Monitor vault contents for slugs and spurious non-US currency or theft and notify HTI of discrepancies

Station or enclosure equipment should only bear the name/brand designated by HTI on the order form

Protect against clip on fraud

Protect against red box fraud

Protect against blue box fraud

Provide option for use of "bright" station technology including debit cards

Provide revenue, maintenance, collection reports as specified by
HTI on order form on a periodic basis in paper or electronic format

25.12.6 BellSouth shall provide the following features for Coin Line, SemiPublic Coin, COCOT Line Coin, and COCOT Line Coinless services:

Blocking of inbound international calls

Point of demarcation at the set location
Special screen codes unique to HTI and/or its Customers
Single Point of Contact for bills and orders dedicated to Public
Service outage transfers to HTI help center
Access to HTI Directory Assistance
Access to HTI's Network Access Interrupt
Use HTI branded invoice
Provide all information requested to ensure HTI can bill for access line
Provide all information requested to ensure HTI can bill for usage on the
line

All calls originating from stations serviced by these lines should be routed to HTI lines, except where designated

25.13 Voice Mail Service

25.13.1 Where available to BellSouth's end users, BellSouth shall provide the following feature capabilities to allow for voice mail services:

Station Message Desk Interface - Enhanced ("SMDI-E")
Station Message Desk Interface ("SMDI")
Message Waiting Indicator ("MWI") stutter dialtone 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")

25.14 Hospitality Service

25.14.1 BellSouth shall provide all blocking, screening, and all other applicable functions available for hospitality lines.

25.15 Blocking Service

25.15.1 BellSouth shall provide blocking of 700, 900, and 976 services individually or in any combination upon request, including bill to third Party and collect calls, from HTI on a line, trunk, or individual service basis at parity with what BellSouth provides its end users.

- DELETED
- 26.1 DELETED
- 26.1.1 **DELETED**
- 26.1.2 **DELETED**
- 26.1.3 **DELETED**

26.1.4	DELETED

Support Functions

27.1 Routing to Directory Assistance, Operator and Repair Services

- 27.1.1 BellSouth shall make available to HTI the ability to route:
- 27.1.1.1 Local Directory Assistance calls (411, (NPA) 555 1212) dialed by HTI
 Customers directly to the HTI Directory Assistance Services platform. Local
 Operator Services calls (0+, 0-) dialed by HTI Customers directly to the HTI
 Local Operator Services Platform. Such traffic shall be routed over trunk
 groups between BellSouth end offices and the HTI Local Operator Services
 Platform, using standard Operator Services dialing protocols of 0+ or 0-.
- 27.1.1.2 611 repair calls dialed by HTI Customers directly to the HTI repair center.
- 27.1.2 Until a permanent industry solution exists for routing of traffic from BellSouth's local switch to other than BellSouth platforms, BellSouth will provide such routing using line class codes. BellSouth agrees to work with HTI on a routing resource conservation program to relieve routing resource constraints to ensure that no switch exceeds 95% capacity of line class codes. BellSouth and HTI shall continue to work with the appropriate industry groups to develop a long-term solution for selective routing. BellSouth may reserve for itself an appropriate and reasonable number of line class codes for its own use.
- 27.1.3 All direct routing capabilities described herein shall permit HTI Customers to dial the same telephone numbers for HTI Directory Assistance, Local Operator Service and Repair that similarly situated BellSouth Customers dial for reaching equivalent BellSouth services.
- BellSouth, no later than fifteen (15) days after the Effective Date, shall provide to HTI, the emergency public agency (e.g., police, fire, ambulance) telephone numbers linked to each NPA-NXX. Such data will be compiled as an electronic flat file in a mutually agreed format and transmitted via either diskette or Network Data Mover. BellSouth will transmit to HTI, in a timely manner, all changes, alterations, modifications and updates to such data base via the same method as the initial transfer.

27.2 Operator Services - Interim Measures

27.2.1 Where BellSouth is the provider of Directory Assistance service, BellSouth agrees to provide HTI Customers with the same Directory Assistance available to BellSouth Customers. If requested by HTI, BellSouth will provide HTI Directory Assistance Service under the HTI brand.

- 27.2.1.1 HTI recognizes that BellSouth's providing to HTI Directory Assistance Service under HTI's brand may require additional costs to be incurred by BellSouth. BellSouth will charge HTI for such branded Directory Assistance capability under the wholesale rate plus the reasonable and demonstrable costs necessary to implement HTI's branding request.
- 27.2.2 Additionally, BellSouth warrants that such service will provide the following minimum capabilities to HTI's Customers:
 - Two Customer listings and/or addresses per HTI Customer call.
 - (2) Name and address to HTI Customers upon request, except for unlisted numbers, in the same states where such information is provided to BellSouth Customers.
 - (3) Upon request, call completion to the requested number for local and intraLATA toll calls, where this service is available.
 - (4) Populate the listing database in the same manner and in the same time frame as if the Customer was a BellSouth Customer.
 - (5) Any information provided by a Directory Assistance Automatic Response Unit (ARU) will be repeated the same number of times for HTI Customers as for BellSouth's Customers.
 - (6) Service levels will comply with Tennessee Regulatory Authority requirements for:
 - a) number of rings to answer
 - b) average work time
 - c) disaster recovery options.
 - (7) Intercept service for Customers moving service will include:
 - a) referral to new number, either 7 or 10 digits
 - b) repeat of the new number twice on the referral announcement
 - c) repeat of the new recording twice.
- 27.2.3 BellSouth shall provide Operator Services to HTI's Customers at the same level of service available to BellSouth end users.
- 27.2.4 **DELETED**

- 27.2.5 BellSouth agrees to provide HTI Customers the same Operator Services available to BellSouth Customers, branded as required by Section 19.
- 27.2.6 Additionally, BellSouth warrants that such service will provide the following minimum capabilities to HTI Customers:
 - (1) Instant credit on calls, as provided to BellSouth Customers.
 - (2) Routing of calls to HTI when requested via existing Operator Transfer Service (OTS).
 - (3) Busy Line Verification/Emergency Line Interrupt (BLV/ELI) services.
 - (4) Emergency call handling.
 - (5) Notification of the length of call.
 - (6) Caller assistance for the disabled in the same manner as provided to BellSouth Customers.
 - (7) Handling of collect calls: person to person and/or station to station.

27.3 Busy Line Verification and Emergency Line Interrupt

Where BellSouth does not route Operator Services traffic to HTI's platform, BellSouth shall perform Busy Line Verification and Emergency Line Interrupt for HTI on resold BellSouth lines. Where BellSouth routes Operator Services traffic to HTI's platform, BellSouth shall provide BLV/ELI services when requested by HTI Operators. HTI and BellSouth shall work together to ensure that sufficient facilities exist to support increased BLV/ELI volume due to HTI's presence as a Local Service provider. Specifically, BellSouth will engineer its BLV/ELI facilities to accommodate the anticipated volume of BLV/ELI requests during the Busy Hour. HTI may, from time to time, provide its anticipated volume of BLV/ELI requests to BellSouth for planning purposes. In those instances when the BLV/ELI facilities/systems cannot satisfy forecasted volumes, BellSouth shall promptly inform HTI, and the Parties shall work together to resolve capacity problems expediently.

27.4 Access to the Line Information Database

BellSouth shall use its service order process to update and maintain, on the same schedule that it uses for its end users, the HTI Customer service information in the Line Information Database ("LIDB").

27.5 Telephone Line Number Calling Cards

Effective as of the date of an end-user's subscription to HTI Service, BellSouth will terminate its existing telephone line number - based calling cards and remove any BellSouth-assigned Telephone Line Calling Card Number (including area code) ("TLN") from the LIDB. HTI may issue a new telephone calling card to such Customer, utilizing the same TLN and enter such TLN in LIDB for calling card validation purposes via the service order process.

28. Service Functions

28.1 Electronic Interface

BellSouth shall provide real time electronic interfaces ("El") for transferring and receiving Service Orders and Provisioning data and materials (e.g., access to Street Address Guide ("SAG") and Telephone Number Assignment database). These interfaces shall be administered through a gateway that will serve as a point of contact for the transmission of such data from HTI to BellSouth, and from BellSouth to HTI. The requirements and implementation of such a data transfer system shall be negotiated in good faith by the Parties as specified below and in Attachment 15 of this Agreement. HTI and BellSouth agree to use best efforts to provide the Electronic Communications gateway described above as soon as practicable, but in no event later than the dates specified in Attachment 15. In addition, (i) BellSouth agrees to use its best efforts to carry out its responsibilities, and (ii) HTI agrees to use its best efforts to carry out its responsibilities. HTI and BellSouth have agreed on interim solutions described below and in Attachment 15 to address the Pre-ordering, Ordering and Provisioning interfaces. BellSouth warrants that such interim solutions shall provide HTI Customers with the same level of service available to BellSouth Customers.

28.1.1 Pre-Ordering

28.1.1.1 **DELETED**

28.1.1.2 **DELETED**

- 28.1.1.3 BellSouth will supply HTI with Interval Guide Job Aids to be used to determine service installation dates. BellSouth will implement an electronic interface to its Due Date Support Application (DSAP) by December 31, 1996 but no later than April 1, 1997.
- 28.1.1.4 BellSouth will reserve up to 100 telephone numbers per NPA-NXX at HTI's request, for HTI's sole use. BellSouth will provide additional numbers at HTI's request in order that HTI have sufficient numbers available to meet expected needs. The telephone number reservations made in this manner are valid for HTI's assignment for ninety (90) days from the reservation date. BellSouth will make the telephone number reservations available to HTI via diskette by no

later than August 15, 1996 and by electronic file transfer no later October 15, 1996. BellSouth agrees to implement an electronic interface to improve this process by December 31, 1996, but no later than April 1, 1997.

- 28.1.1.5 BellSouth Local Carrier Service Center (LCSC) will assign vanity numbers and blocks of numbers for use with complex services including, but not limited to, DID and Hunting arrangements, as requested by HTI, and documented in Work Center Interface agreements.
- 28.1.1.6 BellSouth will migrate all Pre-ordering functionality to the "Pre-Ordering"
 Electronic Communications Gateway by December 31, 1996, but no later than April 1, 1997. This migration effort shall be accomplished as described by BellSouth in its "Phase II interactive solution" report to the Georgia Public Service Commission of July 21, 1996.

28.1.2 Ordering

- 28.1.2.1 BellSouth agrees to develop, and HTI agrees to cooperate in the development of, a mutually acceptable Electronic Data Interchange (EDI) for ordering Local Services. The ordering process and related transactions, (i.e., order, confirmation, firm order commitments, supplements and completions) shall be via the EDI interface.
- 28.1.2.2 BellSouth agrees to implement the EDI interface to support processes for Local Services for residence POTS and features, business POTS and features and PBX trunks with Direct Inward Dialing by September 1, 1996. By December 15, 1996, all Local Services shall be available for ordering via EDI interface.

28.1.2.3 **DELETED**

28.2 Work Order Processes

- 28.2.1 BellSouth shall ensure that all work order processes used to provision Local Service to HTI for resale meet the service parity requirements set forth in this part.
- 28.2.2 Prior to HTI sending BellSouth the first Service Order, BellSouth and HTI shall develop mutually agreed-upon escalation and expedite procedures to be employed at any point in the Service Ordering, Provisioning, Maintenance, Billing and Customer Usage Data transfer processes to facilitate rapid and timely resolution of disputes. These procedures will be maintained in the Work Center Interface Agreements.

28.3 Point of Contact for the HTI Customer

28.3.1 Except as otherwise provided in this Agreement, HTI shall be the single and sole point of contact for all HTI Customers.

28.3.2 **DELETED**

28.3.3 BellSouth shall ensure that all BellSouth representatives who receive inquiries regarding HTI services when providing services on behalf of HTI: (i) refer such inquiries to HTI at a telephone number provided by HTI; (ii) do not in any way disparage or discriminate against HTI, or its products or services; and (iii) do not provide information about BellSouth products or services.

28.4 Single Point of Contact

- 28.4.1 Each Party shall provide the other Party with a single point of contact ("SPOC") for all inquiries regarding the implementation of this Part. Each Party shall accept all inquiries from the other Party and provide timely responses.
- 28.4.2 BellSouth Contact numbers will be kept current in the Work Center Interface Agreements.

28.5 Service Order

To facilitate the ordering of new service for resale or changes to such service to an HTI Customer ("Service Order"), BellSouth shall provide HTI's representative with real time access (as described in Section 28.1 of this Part 1) to BellSouth Customer information to enable the HTI representative to perform the following tasks:

- 28.5.1 Obtain Customer profile information via telephone. Methods and procedures for this interim interface will be defined in a Work Center Interface Agreement.
- 28.5.2 Obtain information on all Telecommunication Services that are available for resale, including new services via an electronic file with feature and service information in each BellSouth switch.
- 28.5.3 BellSouth will provide HTI with interactive direct order entry no later than March 31, 1997. Until this capability is available, BellSouth agrees to establish the Local Carrier Service Center (LCSC) as the SPOC for order entry. Orders will be received at the LCSC via the EDI interface. BellSouth agrees to enter the Service Order promptly on receipt and provide Firm Order Confirmation (FOC) within 24 hours of receipt of a correct Local Service Request.
- 28.5.4 BellSouth will provide HTI with on line access to telephone number reservations by December 31, 1996, but no later April 1, 1997. Until on line access is available via electronic interface, BellSouth agrees to provide HTI

363	with a ready supply of telephone numbers. The process for telephone number reservations is described in Section 28.1.1.4 of this Agreement.
28.5.5	BellSouth will provide HTI with the capability to establish directory listings via the Service Order Process.
28.5.6	BellSouth will provide HTI with the appropriate information and training materials (job aids) to assist HTI work centers to determine whether a service call will be required on a service installation. These job aids are to be the same information available to BellSouth employees.
28.5.7	BellSouth will provide HTI on line ability to schedule dispatch and by December 31, 1996 but no later than April 1, 1997. Until on line access is available, BellSouth agrees to provide HTI with interval guides for BellSouth services.
28.5.8	BellSouth will provide HTI with the ability to order local service, local intraLATA toll service, and designate the end users' choice of primary intraLATA and interLATA Interexchange Carriers on a single unified order.
28.5.9	BellSouth will suspend, terminate or restore service to an HTI Customer at HTI's request.
28.6	Provisioning
28.6.1	DELETED
28.6.1.1	DELETED
28.6.1.2	DELETED
28.6.1.3	DELETED
28.6.1.4	DELETED
28.6.1.5	DELETED
28.6.2	BellSouth shall provide HTI with service status notices, within mutually agreed- upon intervals. Such status notices shall include the following:
28.6.2.1	Firm order confirmation, including service availability date and information regarding the need for a service dispatch for installation.
28.6.3	BellSouth will provide HTI with on-line notice of service installation by no later than March 31, 1997. Until this capability is available, BellSouth will provide HTI with completion information on a daily basis for all types of Service Orders. BellSouth will utilize the EDI interface to transmit that data to HTI. If an installation requires deviation from the Service Order in any manner, or if an

HTI Customer requests a service change at the time of installation, BellSouth will call HTI in advance of performing the installation for authorization. BellSouth will provide to HTI at that time an estimate of additional labor hours and/or materials required for that installation. After installation is completed, BellSouth will immediately inform HTI of actual labor hours and/or materials used.

- 28.6.4 BellSouth will provide HTI with on-line information exchange for Service Order rejections, Service Order errors, installation jeopardies and missed appointments by no later than March 31, 1997, until this capability is available, BellSouth agrees to:
- 28.6.4.1 Use its best efforts to notify HTI via telephone of any Service Order rejections or errors within one hour of receipt;
- 28.6.4.2 Confirm such telephone notices in writing via facsimile at the end of each business day; and
- 28.6.4.3 BellSouth shall promptly notify HTI via telephone if an installation or service appointment is in jeopardy of being missed.
- 28.6.4.4 The notification process will be described further in the Work Center Interface agreement between HTI and BellSouth.
- 28.6.5 **DELETED**
- 28.6.6 BellSouth will provide HTI with on-line information on charges associated with necessary construction no later than March 31, 1997. Until this capability is available, BellSouth agrees that BellSouth's LCSC will promptly notify HTI of any charges associated with necessary construction.
- 28.6.7 BellSouth will provide HTI with on-line access to status information on Service Orders no later than March 31, 1997. Until this capability is available, BellSouth agrees to provide status at the following critical intervals: acknowledgment, firm order confirmation, and completion on Service Orders. In addition, BellSouth Local Carrier Service Center will provide HTI with status, via telephone, upon request.
- 28.6.8 BellSouth will perform all pre-service testing on resold Local Services.
- 28.6.9 Where BellSouth provides installation and the HTI Customer requests a service change at the time of installation, BellSouth shall immediately notify HTI at the telephone number on the Service Order of that request. The BellSouth technician should notify HTI in the presence of the HTI Customer so that HTI can negotiate authorization to install the requested services directly with that

Customer and the technician, and revise appropriate ordering documents as necessary.

- 28.6.10 To ensure that HTI's Customers have the same ordering experience as BellSouth's Customers:
- 28.6.10.1 BellSouth shall provide HTI with the capability to have HTI's Customer orders input to and accepted by BellSouth's Service Order Systems outside of normal business hours, twenty-four (24) hours a day, seven (7) days a week, the same as BellSouth's Customer orders received outside of normal business orders are input and accepted.
- 28.6.10.2 Such ordering and provisioning capability shall be provided via an electronic interface, except for scheduled electronic interface downtime. Downtime shall not be scheduled during normal business hours and shall occur during times where systems experience minimum usage.
- 28.6.10.3 Until the Electronic Interface is available, BellSouth shall provide Local Carrier Service Center (LCSC) order entry capability to HTI to meet the requirements set forth in Section 28.6.10.1 above.
- 28.6.11 BellSouth shall provide training for all BellSouth employees who may communicate with HTI Customers, during the provisioning process. Such training shall conform to Section 19 of the General Terms and Conditions of this Agreement.
- 28.6.12 BellSouth will provide HTI with the capability to provide HTI Customers the same ordering, provisioning intervals, and level of service experiences as BellSouth provides to its own Customers, in accordance with standards or other measurements that are at least equal to the level that BellSouth provides or is required to provide by law and its own internal procedures.
- 28.6.13 BellSouth will maintain and staff an account team to support HTI's inquiries concerning the ordering of local complex service and designed business services for local services resale. This team will provide information regarding all services, features and functions available, know the forms and additional information required beyond the standard local service request, assist HTI in preparation of such orders, and coordinate within BellSouth.
- 28.6.14 BellSouth will provide HTI with the information HTI will need to certify
 Customers as exempt from charges, or eligible for reduced charges associated
 with the provisioning of new services, including but not limited to handicapped
 individuals, and certain governmental bodies and public institutions. BellSouth,
 when notified that an order for new service is exempt in some fashion, will not
 bill HTI.

28.6.15 BellSouth will provide the same intercept treatment and transfer of service announcements to HTI's Customers as BellSouth provides to its own end users without any branding. 28.6.16 BellSouth will provide HTI with appropriate notification of all area transfers with line level detail 120 days before service transfer, and will also notify HTI within 120 days before such change of any LATA boundary changes, or within the time frame required by an approving regulatory body, if any. 28.6.17 BellSouth agrees to develop with HTI's cooperation, mutually acceptable interface agreements between work centers regarding the exchange of information and process expectations. 28.6.18 BellSouth will suspend HTI local Customers' service upon HTI's request via the receipt of a Local Service Request. The service will remain suspended until such time as HTI submits a Local Service Request requesting BellSouth to reactivate. 28.6.19 BellSouth will provide HTI's end users the same call blocking options available to BellSouth's own end users. 28.6.20 BellSouth will work cooperatively with HTI in practices and procedures regarding Law Enforcement and service annoyance call handling. To the extent that circuit-specific engineering is required for resold services. BellSouth will provide the same level of engineering support as BellSouth provides for its comparable retail services. 28.6.21 BellSouth will provide information about the certification process for the provisioning of LifeLine, Link-up and other similar services. 28.6.22 BellSouth will provide a daily electronic listing of HTI Customers who change their local carrier. The process is described as OUTPLOC (See reference in

28.7 Maintenance

Maintenance shall be provided in accordance with the requirements and standards set forth in Attachment 5. Maintenance will be provided by BellSouth in accordance with the service parity requirements set forth in this Part.

Local Account Maintenance Requirements of Attachment 7.)

28.8 Provision of Customer Usage Data

BellSouth shall provide the Customer Usage Data recorded by the BellSouth. Such data shall include complete HTI Customer usage data for Local Service, including both local and intraLATA toll service (e.g., call detail for all services,

including flat-rated and usage-sensitive features), in accordance with the terms and conditions set forth in Attachment 7.

28.9	Service/Operation Readiness Testing
28.9.1	In addition to testing described elsewhere in this Section, BellSouth shall test the systems used to perform the following functions in a mutually agreed upon time frame prior to commencement of BellSouth's provision of Local Service, in order to establish system readiness capabilities:
28.9.1.1	All interfaces between HTI and BellSouth work centers for Service Order, Provisioning;
28.9.1.2	Maintenance, Billing and Customer Usage Data;
28.9.1.3	The process for BellSouth to provide Customer profiles;
28.9.1.4	The installation scheduling process;
28.9.1.5	DELETED
28.9.1.6	Telephone number assignment;
28.9.1.7	Procedures for communications and coordination between HTI SPOC and BellSouth SPOC;
28.9.1.8	Procedures for transmission of Customer Usage Data; and
28.9.1.9	Procedures for transmitting bills to HTI for Local Service; and the process for wholesale billing for local service.
28.9.2	The functionalities identified above shall be tested by BellSouth in order to determine whether BellSouth performance meets the applicable service parity requirements, quality measures and other performance standards set forth in this Agreement. BellSouth shall make available sufficient technical staff to perform such testing. BellSouth technical staff shall be available to meet with HTI as necessary to facilitate testing. BellSouth and HTI shall mutually agree on the schedule for such testing.
28.9.3	At HTi's reasonable request, BellSouth shall provide HTI with service readiness test results of the testing performed pursuant to the terms of this Part.
28.9.4	During the term of this Agreement, BellSouth shall participate in cooperative testing requested by HTI whenever both companies agree it is necessary to ensure service performance, reliability and Customer serviceability.

Billing For Local Service

28.10

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- 28.10.1 BellSouth shall bill HTI for Local Service provided by BellSouth to HTI pursuant to the terms of this Part, and in accordance with the terms and conditions for Connectivity Billing and Recording in Attachment 6.
- 28.10.2 BellSouth shall recognize HTI as the Customer of record for all Local Service and will send all notices, bills and other pertinent information directly to HTI unless HTI specifically requests otherwise.

PART II: UNBUNDLED NETWORK ELEMENTS

29. Introduction

This Part II sets forth the unbundled Network Elements that BellSouth agrees to offer to HTI in accordance with its obligations under Section 251(c)(3) of the Act. The specific terms and conditions that apply to the unbundled Network Elements and the requirements for each Network Element are described below and in the Network Elements Service Description, Attachment 2. The price for each Network Element is set forth in Part IV of this Agreement. BellSouth shall offer Network Elements to HTI as of the Effective Date.

30. Unbundled Network Elements

- 30.1 BellSouth shall offer Network Elements to HTI on an unbundled basis on rates, terms and conditions that are just, reasonable, and non-discriminatory in accordance with the terms and conditions of this Agreement.
- 30.2 BellSouth will permit HTI to interconnect HTI's facilities or facilities provided by HTI or by third Parties with each of BellSouth's unbundled Network Elements at any point designated by HTI that is technically feasible.
- 30.3 BellSouth will deliver to HTI's Served Premises any interface that is technically feasible. HTI, at its option, may designate other interfaces through the Bona Fide Request process delineated in Attachment 14.
- 30.4 HTI may use one or more Network Elements to provide any feature, function, or service option that such Network Element is capable of providing or any feature, function, or service option that is described in the technical references identified herein.
- 30.5 BellSouth shall offer each Network Element individually in order to permit HTI to provide Telecommunications Services to its Customers subject to the provisions of Section 1A of the General Terms and Conditions of this Agreement.
- 30.6 For each Network Element, BellSouth shall provide a demarcation point (e.g., an interconnection point at a Digital Signal Cross Connect or Light Guide Cross Connect panel or a Main Distribution Frame) and, if necessary, access to such demarcation point, which HTI agrees is suitable. However, where BellSouth provides contiguous Network Elements to HTI, BellSouth may provide the existing interconnections and no demarcation point shall exist between such contiguous Network Elements.

30.7 DELETED

30.8 DELETED

30.9 Attachment 2 of this Agreement describes the Network Elements that HTI and BellSouth have identified as of the Effective Date of this Agreement. HTI and BellSouth agree that the Network Elements identified in Attachment 2 are not exclusive. Either Party may identify additional or revised Network Elements as necessary to improve services to Customers, to improve network or service efficiencies or to accommodate

revised Network Elements as necessary to improve services to Customers, to improve network or service efficiencies or to accommodate changing technologies, Customer demand, or regulatory requirements. Upon BellSouth's identification of a new or revised Network Element, BellSouth shall notify HTI of the existence of and the technical characteristics of the new or revised Network Element.

HTI shall make it's request for a new or revised Network Element pursuant to the Bona Fide Request Process identified in Section 1.1 of the General Terms and Conditions of this Agreement. Additionally, if BellSouth provides any Network Element that is not identified in this Agreement, to itself, to its own Customers, to a BellSouth affiliate or to any other entity, BellSouth will provide the same Network Element to HTI on rates, terms and conditions no less favorable to HTI than those provided to itself or to any other Party. Additional descriptions and requirements for each Network Element are set forth in Attachment 2.

30.9.1 DELETED 30.9.2 DELETED DELETED 30.9.3 30.9.4 DELETED 30.9.5 DELETED 30.9.6 DELETED DELETED 30.9.7 30.9.8 DELETED 30.9.9 DELETED 30.9.10 DELETED 30.9.11 DELETED 30.10 Standards for Network Elements

- 30.10.1 BellSouth shall comply with the requirements set forth in the technical references, as well as any performance or other requirements identified in this Agreement, to the extent that they are consistent with the greater of BellSouth's actual performance or applicable industry standards. If another Bell Communications Research, Inc. ("Bellcore"), or industry standard (e.g., American National Standards Institute ("ANSI")) technical reference or a more recent version of such reference sets forth a different requirement, HTI may request, where technically feasible, that a different standard apply by making a request for such change pursuant to the Bona Fide Request Process identified in Section 1.1 of the General Terms and Conditions of this Agreement.
- 30.10.2 If one or more of the requirements set forth in this Agreement are in conflict, the parties shall mutually agree on which requirement shall apply. If the parties cannot reach agreement, the Alternative Dispute Resolution Process identified in Section 16 of the General Terms and Conditions of this Agreement shall apply.
- 30.10.3 Each Network Element provided by BellSouth to HTI shall be at least equal in the quality of design, performance, features, functions and other characteristics, including but not limited to levels and types of redundant equipment and facilities for power, diversity and security, that BellSouth provides in the BellSouth network to itself, BellSouth's own Customers, to a BellSouth affiliate or to any other entity for the same Network Element.

30.10.3.1 **DELETED**

- 30.10.3.2 BellSouth agrees to work cooperatively with HTI to provide Network Elements that will meet HTI's needs in providing services to its Customers.
- 30.10.4 Unless otherwise designated by HTI, each Network Element and the interconnections between Network Elements provided by BellSouth to HTI shall be made available to HTI on a priority basis that is equal to or better than the priorities that BellSouth provides to itself, BellSouth's own Customers, to a BellSouth affiliate or to any other entity for the same Network Element.

PART III: ANCILLARY FUNCTIONS

Introduction

This Part and Attachment 3 set forth the Ancillary Functions and requirements for each Ancillary Function that BellSouth agrees to offer to HTI so that HTI may provide Telecommunication Services to its Customers.

32. BellSouth Provision of Ancillary Functions

Part IV of this Agreement sets forth the prices for such Ancillary Functions. BellSouth will offer Ancillary Functions to HTI on rates, terms and conditions that are just, reasonable, and non-discriminatory and in accordance with the terms and conditions of this Agreement.

The Ancillary Functions that HTI has identified as of the Effective Date of this Agreement are Collocation, Rights Of Way (ROW), Conduits and Pole Attachments. HTI and BellSouth agree that the Ancillary Functions identified in this Part III are not exclusive. Either Party may identify additional or revised Ancillary Functions as necessary to improve services to Customers, to improve network or service efficiencies or to accommodate changing technologies, Customer demand, or regulatory requirements. Upon BellSouth's identification of a new or revised Ancillary Function, BellSouth shall notify HTI of the existence of and the technical characteristics of the new or revised Ancillary Function.

HTI shall make its request for a new or revised Ancillary Function pursuant to the Bona Fide Request Process identified in Section 1.1 of the General Terms and Conditions of this Agreement.

32.2 If BellSouth provides any Ancillary Function to itself, to its own Customers, to a BellSouth affiliate or to any other entity, BellSouth will provide the same Ancillary Function to HTI at rates, terms and conditions no less favorable to HTI than those provided by BellSouth to itself or to any other Party. The Ancillary Functions and requirements for each Ancillary Function are set forth in Attachment 3.

33. Standards for Ancillary Functions

Each Ancillary Function shall meet or exceed the requirements set forth in the technical references, as well as the performance and other requirements, identified in this Agreement. If another Bell Communications Research, Inc. ("Bellcore"), or industry standard (e.g., American National Standards Institute ("ANSI")) technical reference sets forth a different requirement, HTI may elect, where technically feasible, which standard shall apply by making a request for such change pursuant

to the Bona Fide Request Process identified in Section 1.1 of the General Terms and Conditions of this Agreement.

- Except as otherwise expressly agreed to herein, each Ancillary Function provided by BellSouth to HTI herein shall be at least equal in the quality of design, performance, features, functions and other characteristics, including, but not limited to levels and types of redundant equipment and facilities for diversity and security, that BellSouth provides in BellSouth network to itself, its own Customers, its affiliates or any other entity. This Section is not intended to limit BellSouth's ability during this Agreement to offer to HTI nor HTI's ability to accept Ancillary Functions with varying degrees of features, functionalities and characteristics.
- 33.3 DELETED
- 33.3.1 BellSouth agrees to work cooperatively with HTI to provide Ancillary Functions that will meet HTI's needs in providing services to its Customers.
- Ancillary Functions provided by BellSouth to HTI shall be allocated to HTI on a basis that is at least equal to that which BellSouth provides to itself, its Customers, its affiliates or any other entity.

PART IV: PRICING

General Principles

All services currently provided hereunder (including resold Local Services, Network Elements, Combinations and Ancillary Functions) and all new and additional services to be provided hereunder shall be priced in accordance with all applicable provisions of the Act and the rules and orders of the Federal Communications Commission and the Florida Public Service Commission.

35. Local Service Resale

The rates that HTI shall pay to BellSouth for resold Local Services shall be BellSouth's Retail Rates less the applicable discount. The following discount will apply to all Telecommunications Services available for resale in Florida.

Residential Service

21.83%

Business Service:

16.81%

Unbundled Network Elements

The prices that HTI shall pay to BellSouth for Unbundled Network Elements are set forth in Table 1.

36.1 Charges for Multiple Network Elements

Any BellSouth non-recurring and recurring charges shall not include duplicate charges or charges for functions or activities that HTI does not need when two or more Network Elements are combined in a single order. BellSouth and HTI shall work together to mutually agree upon the total non-recurring and recurring charge(s) to be paid by HTI when ordering multiple Network Elements. If the parties cannot agree to the total non-recurring and recurring charge(s) to be paid by HTI when ordering multiple Network Elements within sixty (60) days of the Effective Date, either party may petition the Florida Public Service Commission to settle the disputed charge or charges.

37. Compensation For Call and Transport Termination

The prices that HTI and BellSouth shall pay are set forth in Table 1.

38. Ancillary Functions

38.1 Collocation - The prices that HTI shall pay to BellSouth are set forth in Table 2.

- Rights-of-Way The prices that HTI shall pay to BellSouth are set forth in Table 3.
- Poles, Ducts and Conduits BellSouth shall provide access to poles, conduits and ducts at rates that are consistent with 47 U.S.C Section 224(d). HTI may file a complaint with the appropriate regulatory authority if it believes the rates provided by BellSouth are not consistent with 47 U.S.C. Section 224(d).

39. Local Number Portability

The prices for interim number portability are set forth in Table 4.

40. Recorded Usage Data

The prices for recorded usage data are set forth in Table 5.

41. Electronic Interfaces

Each party shall bear its own cost of developing and implementing Electronic Interface Systems because those systems will benefit all carriers. If a system or process is developed exclusively for certain carriers, however, those costs shall be recovered from the carrier who is requesting the customized system.

TABLE 1

UNBUNDLED NETWORK ELEMENTS

Network Interface Device, Per Month	\$0.76 (interim rate)
Loops, including NID	
2 wire, per month	\$ 17.00
NRC First	\$140.00
NRC Add'I	\$ 42.00
4 wire, per month	\$ 30.00
NRC First	\$141.00
NRC Add'I	\$ 43.00
2 wire ISDN, per month	\$ 40.00
NRC First	\$306.00
NRC Add'I	\$283.00
DS1, per month	\$ 80.00
NRC First	\$540.00
NRC Add'I	\$465.00
Unbundled Loop Channelization System (DSI to VG)	
Per system, per month	\$480.00
NRC, First	\$350.00
NRC, Add'I	\$ 90.00
Per voice interface, per month	\$ 1.50
NRC, First	\$ 5.75
NRC, Add'I	\$ 5.50

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and Office Contabina	
End Office Switching	
Ports	
2 wire	\$ 2.00
NRC First	\$38.00
NRC Add'I	\$15.00 -
4 wire	\$10.00 (interim rate)
NRC First	\$38.00 (interim rate)
NRC Add'I	\$15.00 (interim rate)
2 wire ISDN	\$13.00
NRC First	\$88.00
NRC Add'I	\$66.00
2 wire DID	TBD
NRC First	тво
NRC Add'I	TBD
4 wire ISDN	TBD
NRC First	TBD
NRC Add'I	ТВО
4 wire DS1	\$125.00
NRC First	\$112.00
NRC Add'I	\$ 91.00
Usage	
Initial Minute	\$0.0175
Additional Minutes	\$0.005
Features, functions, capabilities	No additional charge

Operator Systems	
Operator Call Handling-Station & Person	\$1.00 per minute
Automated Call Handling	\$0.10 per call attempt
Directory Assistance	\$0.25 per call
DA Call Completion	\$0.03 per call attempt
Intercept	\$0.01 per call
Busy Line Verification	\$0.80 per call
Emergency Interrupt	\$1.00 per call
Directory Assistance	
DA Database	
per listing	\$0.001
monthly	\$100.00
Direct access to DA service	
per query	\$0.01
monthly	\$5,000.00
NRC, service establish charge	\$820.00
DA transport	
switched local channel	\$133.81 (interim rate)
NRC, first	\$866.97 (interim rate)
NRC, add'l	\$486.83 (interim rate)
switched dedicated DS1 level	
per mile	\$16.75 (interim rate)
per facility termination	\$59.75 (interim rate)
NRC	\$100.49 (interim rate)
switched common	

\$0.0003
\$0.00001
\$0.00055
\$ 59.75
\$ 1.60
\$100.49 (interim rate)
\$0.0005
\$0.000012
\$0.00029 per minute
\$5.00 per link, per month
\$400.00
\$113.00

Signal Transfer Points	
ISUP	\$0.00001 per message
TCAP	\$0.00004 per message
Usage surrogate	\$64.00 per month
	- x -
Service Control Points	
LIDB (1)	тво
Toll Free Database (1)	тво
AIN, per message	\$0.0004 (interim rate)
AIN, Service Creation Tools (1)	тво
AIN, Mediation (1)	тво
(1) BellSouth and HTI shall negotiate rates for this offering. If agreement is not reached within sixty (60) days of the Effective Date, either party may petition the Florida PSC to settle the disputed charge or charges.	41
Call Transport and Termination (2)	
(2) The Parties agree to bill the mutually agreed upon composite interconnection rate of \$0.002 until approximately January, 1998, unless otherwise agreed to by the parties. This interim composite rate will be billed in lieu of interconnection rates on an elemental basis and shall be retroactive to the Effective Date.	

TABLE 2

PHYSICAL AND VIRTUAL COLLOCATION

The following are interim rates, subject to true-up based on permanent rates. Permanent rates will be set once BellSouth files appropriate TSLRIC cost studies and such studies are reviewed and approved by the Florida PSC.

PHYSICAL COLLOCATION

Application - Per Arrangement/Per Location-Nonrecurring	\$3,100.00
Space Preparation Fee - Nonrecurring	ICB
Space Construction Fee - Nonrecurring	\$3,750.00
Cable Installation - Per Entrance Cable	\$2,750.00
Floor Space Zone A, Per Square Foot, Per Month	\$4.28
Floor Space Zone B, Per Square Foot, Per Month	\$4.09
Power Per AMP, Per Month	\$3.86
Cable Support Structure, Per Entrance Cable	\$13.35
POT Bay (Optional Point of Termination Bay)	
Per 2-Wire Cross - Connect, Per Month	\$0.18
Per 4-Wire Cross - Connect, Per Month	\$0.44
Per DS1 Cross - Connect, Per Month	\$0.44
Per DS3 Cross - Connect, Per Month	\$3.66
Cross-Connects	
2-Wire Analog, Per Month	\$0.30
4-Wire Analog, Per Month	\$0.50
Nonrecurring 2-wire and 4-wire	\$9.25
DS1, Per Month	\$3.07
Nonrecurring - First/Additional	\$113.75/14.25
DS3, Per Month	\$39.64
Nonrecurring - First/Additional	\$113.75/14.25
Security Escort	
Basic - 1st half hour	\$41.00
Overtime - 1st half hour	\$48.00
Premium - 1st half hour	\$55.00
Basic - additional	\$25.00
Overtime - additional	\$30.00
Premium - additional	\$35.00

VIRTUAL COLLOCATION

Rates tariffed by BellSouth in its FCC Tariff No. 1, Section 20.

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TABLE 3

RIGHT OF WAY

BellSouth shall provide access to rights-of-way at rates that are consistent with Section 224 of the Telecommunications Act of 1934.

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TABLE 4

LOCAL NUMBER PORTABILITY

HTI and BellSouth shall pay its own costs in the provision of interim number portability. HTI and BellSouth shall track their costs of providing interim number portability with sufficient detail to verify the costs, in order to facilitate the Florida PSC's consideration of recovery of these costs in Docket No. 950737-TP.

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TABLE 5

(Interim Rates Pending Further Negotiation)

RECORDED USAGE DATA

Recording Services (only applied to s.008 unbundled operator services messages), per message

Message Distribution, per message \$.004

Data Transmission, per message \$.001

TELES SE SERVINIARIETE LALL INC

ID:5123926276

PACE 3/3

Execution of the Interconnection Agreement by either Party does not confirm or 42. infer that the executing Party agrees with any decision(s) issued pursuant to the Telecommunications Act of 1996 and the consequences of those decisions on specific language in this Agreement. Neither Party waives its rights to appeal ar otherwise challenge any such decision(s) and each Party reserves all of its rights to pursue any and all legal and/or equitable remedies, including appeals of any such decision(s). If such appeals or challenges result in changes in the decision(s), the Parties agree that appropriate modifications to this Agreement will be made promptly to make its terms consistent with those changed decision(s).

IN WITNESS WHEREOF, the Parties have executed this Agreement through their authorized representatives.

HTI COMMUNICATIONS, Inc.

BFLLSOUTH TELECOMMUNICATIONS, INC.

Interconnection Services

Pricing

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Attachment 1

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ALTERNATIVE DISPUTE RESOLUTION

Purpose

Attachment 1 provides for the expeditious, economical, and equitable resolution of disputes between BellSouth and HTI arising under this Agreement.

2. Exclusive Remedy

- 2.1 Negotiation and arbitration under the procedures provided herein shall be the exclusive remedy for all disputes between BellSouth and HTI arising under or related to this Agreement including its breach, except for: (i) disputes arising pursuant to Attachment 6, Connectivity Billing; and (ii) disputes or matters for which the Telecommunications Act of 1996 specifies a particular remedy or procedure. Except as provided herein, BellSouth and HTI hereby renounce all recourse to litigation and agree that the award of the arbitrators shall be final and subject to no judicial review, except on one or more of those grounds specified in the Federal Arbitration Act (9 USC §§ 1 et seg.), as amended, or any successor provision thereto.
- 2.1.1 If, for any reason, certain claims or disputes are deemed to be non-arbitrable, the non-arbitrability of those claims or disputes shall in no way affect the arbitrability of any other claims or disputes.
- 2.1.2 If, for any reason, the Federal Communications Commission or any other federal or state regulatory agency exercises jurisdiction over and decides any dispute related to this Agreement or to any BellSouth tariff and, as a result, a claim is adjudicated in both an agency proceeding and an arbitration proceeding under this Attachment 1, the following provisions shall apply:
- 2.1.2.1 To the extent required by law, the agency ruling shall be binding upon the Parties for the limited purposes of regulation within the jurisdiction and authority of such agency.
- 2.1.2.2 The arbitration ruling rendered pursuant to this Attachment 1 shall be binding upon the Parties for purposes of establishing their respective contractual rights and obligations under this Agreement, and for all other purposes not expressly precluded by such agency ruling.

3. Informal Resolution of Disputes

- 3.1 The Parties to this Agreement shall submit any and all disputes between BellSouth and HTI for resolution to an Inter-Company Review Board consisting of one representative from HTI at the Director-or-above level and one representative from BellSouth at the Vice-President-or-above level (or at such lower level as each Party may designate).
- 3.2 The Parties may enter into a settlement of any dispute at any time.

4. Initiation of an Arbitration

Except for Disputes Affecting Service, if the Inter-Company Review Board is unable to resolve the dispute within thirty (30) days (or such longer period as agreed to in writing by the Parties) of such submission, and the Parties have not otherwise entered into a settlement of their dispute, either Party may initiate an arbitration in accordance with the CPR Institute for Dispute Resolution ("CPR") Rules for Non-Administered Arbitration and business disputes ("the CPR Rules").

If the Inter-Company Review Board provided for in Section 3 of this. Attachment 1 is unable to resolve a Dispute Affecting Service within two (2) business days (or such longer period as agreed to in writing by the Parties) of such submission, and the Parties have not otherwise entered into a settlement of their dispute, either Party, may, through its representative on the Inter-Company Review Board, request arbitration of what in good faith is believed to be a Dispute Affecting Service in accordance with the requirements of Section 9 of this Attachment 1, with the consent of the other party, which consent shall not be unreasonably withheld. Any dispute not resolved in accordance with Section 9 of this Attachment 1 shall be resolved as if it were not a Dispute Affecting Service.

5. Governing Rules for Arbitration

5.1 The rules set forth below and the CPR Rules shall govern all arbitration proceedings initiated pursuant to this Attachment; however, such arbitration proceedings shall not be conducted under the auspices of the CPR Rules unless the Parties mutually agree. Where any of the rules set forth herein conflict with the rules of the CPR Rules, the rules set forth in this Attachment shall prevail.

6. Appointment and Removal of Arbitrators for the Disputes other than the Disputes Affecting Service Process

- Each arbitration conducted pursuant to this Section shall be conducted before a panel of three Arbitrators, each of whom shall meet the qualifications set forth herein. Each Arbitrator shall be impartial, shall not have been employed by or affiliated with any of the Parties hereto or any of their respective Affiliates and shall possess substantial legal, accounting, telecommunications, business or other professional experience relevant to the issues in dispute in the arbitration as stated in the notice initiating such proceeding. The panel of arbitrators shall be selected as provided in the CPR Rules.
- The Parties may, by mutual written agreement, remove an Arbitrator at any time, and shall provide prompt written notice of removal to such Arbitrator.
- In the event that an Arbitrator resigns, is removed pursuant to Section 6.2 of this Attachment 1, or becomes unable to discharge his or her duties, the Parties shall, by mutual written Agreement, appoint a replacement Arbitrator within thirty (30) days after such resignation, removal, or inability, unless a different time period is mutually agreed upon in writing by the Parties. Any matters pending before the Arbitrator at the time he or she resigns, is removed, or becomes unable to discharge his or her duties, will be assigned to the replacement Arbitrator as soon as the replacement Arbitrator is appointed.

6.4 DELETED

Duties and Powers of the Arbitrators

The Arbitrators shall receive complaints and other permitted pleadings, oversee discovery, administer oaths and subpoena witnesses pursuant to the United States Arbitration Act, hold hearings, issue decisions, and maintain a record of proceedings. The Arbitrators shall have the power to award any remedy or relief that a court with jurisdiction over this Agreement could order or grant, including, without limitation, the awarding of damages, pre-judgment interest, specific performance of any obligation created under the Agreement, issuance of an injunction, or imposition of sanctions for abuse or frustration of the arbitration process, except that the Arbitrators may not: (i) award punitive damages; (ii) or any remedy rendered unavailable to the Parties pursuant to Section 10.3 of the General Terms and Conditions of the Agreement; or (iii) limit, expand, or otherwise modify the terms of this Agreement.

8. Discovery and Proceedings

- BellSouth and HTI shall attempt, in good faith, to agree on a plan for discovery. Should they fail to agree, either BellSouth or HTI may request a joint meeting or conference call with the Arbitrators. The Arbitrators shall resolve any disputes between BellSouth and HTI, and such resolution with respect to the scope, manner, and timing of discovery shall be final and binding.
- The Parties shall facilitate the arbitration by: (i) making available to one another and to the Arbitrators, on as expedited a basis as is practicable, for examination, deposition, inspection and extraction all documents, books, records and personnel under their control if determined by the Arbitrators to be relevant to the dispute; (ii) conducting arbitration hearings to the greatest extent possible on successive days; and (iii) observing strictly the time periods established by the CPR Rules or by the Arbitrators for submission of evidence or briefs.

Resolution of Disputes Affecting Service

9.1 Purpose

This Section 9 describes the procedures for an expedited resolution of disputes between BellSouth and HTI arising under this Agreement which directly affect the ability of a Party to provide uninterrupted, high quality services to its customers at the time of the dispute and which cannot be resolved using the procedures for informal resolution of disputes contained in this attachment of the Agreement.

9.2 Appointment and Removal of Arbitrator

- 9.2.1 A sole Arbitrator will preside over each dispute submitted for arbitration under this Section 9.
- 9.2.2 The Parties shall appoint three (3) Arbitrators who will serve for the term of this Agreement, unless removed pursuant to Section 9.2.3 of this Attachment 1. The appointment and the order in which Arbitrators shall preside over Disputes Affecting Service will be made by mutual agreement in writing within thirty (30) days after the Effective Date.
- 9.2.3 The Parties may, by mutual written agreement, remove an Arbitrator at any time, and shall provide prompt written notice of removal to such Arbitrator.
- 9.2.4 In the event that an Arbitrator resigns, is removed pursuant to Section 9.2.3 of this Attachment 1, or becomes unable to discharge his or her duties, the Parties shall, by mutual written Agreement, appoint a replacement Arbitrator within thirty (30) days after such resignation, removal, or inability, unless a

different time period is mutually agreed upon in writing by the Parties. Any matters pending before the Arbitrator at the time he or she resigns, is removed, or becomes unable to discharge his or her duties, will be assigned to the Arbitrator whose name appears next in the alphabet.

- 9.3 Initiation of Disputes Affecting Service Process.
- 9.3.1 A proceeding for arbitration under this Section 9 will be commenced by a Party ("Complaining Party") after following the process provided for in Section 4 of this Attachment 1 by filing a complaint with the Arbitrator and simultaneously providing a copy to the other Party ("Complaint").
- 9.3.2 Each Complaint will concern only the claims relating to an act or failure to act (or series of related acts or failures to act) of a Party which affect the Complaining Party's ability to offer a specific service (or group of related services) to its customers.
- 9.3.3 A Complaint may be in letter or memorandum form and must specifically describe the action or inaction of a Party in dispute and identify with particularity how the complaining Party's service to its customers is affected.

9.4 Response to Complaint

A response to the Complaint must be filed within five (5) business days after service of the Complaint.

9.5 Reply to Complaint

A reply is permitted to be filed by the Complaining Party within three (3) business days of service of the response. The reply must be limited to those matters raised in the response.

9.6 Discovery

The Parties shall cooperate on discovery matters as provided in Section 8 of this Attachment 1, but following expedited procedures.

9.7 Hearing

9.7.1 The Arbitrator will schedule a hearing on the Complaint to take place within twenty (20) business days after service of the Complaint. However, if mutually agreed to by the Parties, a hearing may be waived and the decision of the Arbitrator will be based upon the papers filed by the Parties.

9.7.2 The hearing will be limited to four (4) days, with each Party allocated no more than two (2) days, including cross examination by the other Party, to present its evidence and arguments. For extraordinary reasons, including the need for extensive cross-examination, the Arbitrator may allocate more time for the hearing.

In order to focus the issues for purposes of the hearing, to present initial views concerning the issues, and to facilitate the presentation of evidence, the Arbitrator has the discretion to conduct a telephone prehearing conference at a mutually convenient time, but in no event later than three (3) days prior to any scheduled hearing.

Each Party may introduce evidence and call witnesses it has previously identified in its witness and exhibit lists. The witness and exhibit lists must be furnished to the other Party at least three (3) days prior to commencement of the hearing. The witness list will disclose the substance of each witness' expected testimony. The exhibit list will identify by name (author and recipient), date, title and any other identifying characteristics the exhibits to be used at the arbitration. Testimony from witnesses not listed on the witness list or exhibits not listed on the exhibit list may not be presented in the hearing.

- 9.7.3 The Parties will make reasonable efforts to stipulate to undisputed facts prior to the date of the hearing.
- 9.7.4 Witnesses will testify under oath and a complete transcript of the proceeding, together with all pleadings and exhibits, shall be maintained by the Arbitrator.

9.8 Decision

- 9.8.1 The Arbitrator will issue and serve his or her decision on the Parties within five(5) business days of the close of the hearing or receipt of the hearing transcript, whichever is later.
- 9.8.2 The Parties agree to take the actions necessary to implement the decision of the Arbitrator immediately upon receipt of the decision.

Privileges

- 10.1 Although conformity to certain legal rules of evidence may not be necessary in connection arbitrations initiated pursuant to this Attachment, the Arbitrators shall, in all cases, apply the attorney-client privilege and the work product immunity.
- 10.2 At no time, for any purposes, may a Party introduce into evidence or inform the Arbitrators of any statement or other action of a Party in connection with

negotiations between the Parties pursuant to the Informal Resolution of Disputes provision of this Attachment 1.

11. Location of Hearing

Unless both Parties agree otherwise, any hearing under this Attachment 1 shall take place in Atlanta, Georgia.

Decision

The Arbitrator(s) decision and award shall be final and binging, and shall be in writing unless the Parties mutually agree to waive the requirement of a written opinion. Judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof. Either Party may apply to the United States District Court for the district in which the hearing occurred for an order enforcing the decision. Except for Disputes Affecting Service, the Arbitrators shall make their decision within ninety (90) days of the initiation of proceedings pursuant to Section 4 of this Attachment, unless the Parties mutually agree otherwise.

13. Fees

- The Arbitrator(s) fees and expenses that are directly related to a particular proceeding shall be paid by the losing Party. In cases where the Arbitrator(s) determines that neither Party has, in some material respect, completely prevailed or lost in a proceeding, the Arbitrator(s) shall, in his or her discretion, apportion expenses to reflect the relative success of each Party. Those fees and expenses not directly related to a particular proceeding shall be shared equally. In the event that the Parties settle a dispute before the Arbitrator(s) reaches a decision with respect to that dispute, the Settlement Agreement must specify how the Arbitrator(s') fees for the particular proceeding will be apportioned.
- In an action to enforce or confirm a decision of the Arbitrator(s), the prevailing Party shall be entitled to its reasonable attorneys' fees, expert fees, costs, and expenses.

Confidentiality

14.1 BellSouth, HTI, and the Arbitrator(s) will treat any arbitration proceeding, including the hearings and conferences, discovery, or other related events, as confidential, except as necessary in connection with a judicial challenge to, or

enforcement of, an award, or unless otherwise required by an order or lawful process of a court or governmental body.

- 14.2 In order to maintain the privacy of all arbitration conferences and hearings, the Arbitrator(s) shall have the power to require the exclusion of any person, other than a Party, counsel thereto, or other essential persons.
- To the extent that any information or materials disclosed in the course of an arbitration proceeding contains proprietary or confidential information of either Party, it shall be safeguarded in accordance with Section 18 of the General Terms and Conditions of the Agreement. However, nothing in Section 18 of the General Terms and Conditions of the Agreement shall be construed to prevent either Party from disclosing the other Party's Information to the Arbitrator in connection with or in anticipation of an arbitration proceeding. In addition, the Arbitrators may issue orders to protect the confidentiality of proprietary information, trade secrets, or other sensitive information.

15. Service of Process

Except as provided in Section 9.3.1 of this Attachment 1, service may be made by submitting one copy of all pleadings and attachments and any other documents requiring service to each Party and one copy to the Arbitrator. Service shall be deemed made (i) upon receipt if delivered by hand; (ii) after three (3) business days if sent by first class U.S. mail; (iii) the next business day if sent by overnight courier service; or (iv) upon confirmed receipt if transmitted by facsimile. If service is by facsimile, a copy shall be sent the same day by hand delivery, first class U.S. mail, or overnight courier service.

15.1 Service by HTI to BellSouth and by BellSouth to HTI at the address designated for delivery of notices in this Agreement shall be deemed to be service to BellSouth or HTI, respectfully.

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SERVICE DESCRIPTION: UNBUNDLED NETWORK ELEMENTS

Introduction

This Attachment sets forth the descriptions and requirements for unbundled network elements that BellSouth agrees to offer to HTI under this Agreement.

2. Loop Combination

2.1 Definition

- 2.1.1 The Loop or Loop Combination is a combination of the network interface device (NID), loop distribution and loop feeder, with or without a loop concentrator/multiplexer. The loop is the physical medium or functional path on which a subscriber's traffic (multiplexed or non-multiplexed, concentrated or non-concentrated) is carried from the MDF, DSX, LGX or DCS in a central office or similar environment (including remote switching modules) up to the termination at the NID at the customer's premise.
- 2.1.2 The provisioning of service to a customer 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 co-located space. These cables and cross-connections may be considered part of the loop, the switch or other transmission equipment, or as a separately tariffed element.

2.2 Technical Requirements

- 2.2.1 The Loop or Loop Combination shall be capable of performing transmission and signaling functions associated with all local services including the following (whenever needed by HTI and wherever available in the BellSouth network, to provide end-to-end service capability to HTI's customer):
- 2.2.1.1 2-wire voice grade basic telephone services;
- 2.2.1.2 2-wire ISDN;
- 2.2.1.3 2-wire CENTREX;
- 2.2.1.4 2 and 4-wire PBX lines or trunks;
- 2.2.1.5 2 and 4-wire voice grade private lines and foreign exchange lines;

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2.2.1.6	4-wire digital data (2.4Kbps through 64Kbps and n times 64Kbps (where n ≤ 24);
2.2.1.7	4-wire DS1 (switched or private line);
2.2.1.8	DS-3 rate private lines; and
2.2.1.9	Optical SONET OC-n rate private lines.
2.2.2	The alternatives for the unbundled loop combination include but are not limited to:
2.2.2.1	Copper twisted pair loop from the NID at the customer's premise to the MDF in the LEC local serving office (LSO).
2.2.2.2	Copper twisted pair distribution from the NID at the customer's premise to a loop concentrator/multiplexer located external to the LSO, with metallic T1 or fiber feeder from the concentrator/multiplexer to an MDF or DSX frame in the LSO (see loop concentrator/multiplexer section for possible variations).
2.2.2.3	Whenever available in the BellSouth network, BellSouth will provide Hybrid fiber coax loop that consists of coax cable from an NID/NIU at the customer's premise to a fiber node, fiber cable from the fiber node to a Host Digital Terminal (HDT) in the LSO, and DS1s from the HDT to a DSX frame in the LSO.
2.2.2.4	DS1 rate loop over a metallic T1 or optical SONET/asynchronous network facility from the NID at the customer's premise to a DSX frame in the LEC LSO.
2.2.2.5	DS3 rate loop over optical SONET/asynchronous network facility from the NID at the customer's premise to a DSX frame or DCS in the LEC LSO.
2.2.2.6	SONET OC-n rate loop from the NID at the customer's premise to a Lightguide Cross-connect (LGX) or DCS in the LSO.
2.2.2.7	Services supported by the loop combinations will include POTS, CENTREX, basic rate ISDN, analog PBX, voice grade private line, and digital data (up to 64 Kb/s). Additional services may include digital PBXs, primary rate ISDN, Nx 64Kb/s, and DS1/DS3 and SONET private lines.
2.2.2.8	The loop combination must support the transmission, signaling,

Attachment 2 Page 4 over it. 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 HTI will be consistent with industry standards. 2.2.2.9 In some instances, HTI will require access to copper twisted pair loop combination unfettered by any intervening equipment (e.g. filters, load coils, range extenders, etc.), so that HTI can use the loop combination for a variety of services by attaching appropriate terminal equipment at the ends. HTI will determine the type of service that will be provided over the loop combination. 2.2.3 The Loop Combination shall be provided to HTI in accordance with the following Technical References: 2.2.3.1 Bellcore TR-NWT-000057, Functional Criteria for Digital Loop Carrier Systems, Issue 2, January 1993. 2.2.3.2 Bellcore TR-NWT-000393, Generic Requirements for ISDN Basic Access Digital Subscriber Lines. ANSI T1.106 - 1988, American National Standard for 2.2.3.3 Telecommunications - Digital Hierarchy - Optical Interface Specifications (Single Mode). 2.2.3.4 ANSI T1.105 - 1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats. 2.2.3.5 ANSI T1.102 - 1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces. 2.2.3.6 ANSI T1.403 - 1989, American National Standard for Telecommunications - Carrier to Customer Installation, DS1 Metallic Interface Specification. 2.2.3.7 Bellcore GR-253-CORE, Synchronous Optical Network Systems (SONET), Common Generic Criteria. 2.2.3.8 DELETED 2.2.3.9 DELETED 2.2.3.10 DELETED 2.2.3.11 DELETED

2.2.3.12	DELETED	
2.2.3.13	Bellcore TR-TSY-000008, Digital Interface Between the SLC 96 Digital Loop Carrier System and a Local Digital Switch, Issue 2, August 1987.	
2.2.3.14	Bellcore TR-NWT-000303, Integrated Digital Loop Carrier System Generic Requirements, Objectives and Interface, Issue 2, December 1992; Rev.1, December 1993; Supplement 1, December 1993.	
2.2.3.15	Bellcore TR-TSY-000673, Operations Systems Interface for an IDLC System, (LSSGR) FSD 20-02-2100, Issue 1, September 1989.	
2.2.3.16	DELETED	
2.2.3.17	DELETED	
2.2.3.18	DELETED	
2.2.3.19	DELETED	
3.	Integrated Digital Loop Carriers	
	Where BellSouth uses integrated Digital Loop Carrier (DLCs) systems to provide the local loop, BellSouth will make alternative arrangements to permit HTI to order a contiguous unbundled local loop. These arrangements must provide HTI with the capability to serve all of BellSouth's Customers at the same level BellSouth provides itself.	
4.	Loop Distribution	
	Loop Distribution is composed of two distinct component parts: a Network Interface Device and Distribution Media. Each component part is defined in detail below.	
4.1	Network Interface Device	
4.1.1	Definition	
4.1.1.1	The Network Interface Device (NID) is a single-line termination device or that portion of a multiple-line termination device required to terminate a single line or circuit. The fundamental function of the NID is to establish the official network demarcation point between a carrier and its end-user customer. The NID features two independent chambers or divisions which separate the service provider's network from the customer's inside	

wiring. Each chamber or division contains the appropriate connection points or posts to which the service provider, and the end-user customer

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each make their connections. The NID provides a protective ground connection, and is capable of terminating cables such as twisted pair cable.

- BellSouth shall allow HTI to access the customer's inside wiring. Such access may take place through either of the following: 1) allow HTI to use any existing capacity on BellSouth's NID; or 2) in instances where spare capacity does not exist, HTI may connect its NID to BellSouth's NID only in adherence with the FCC rules regarding a NID to NID arrangement, until such time as appropriate guidelines for connection to the NID are developed and incorporated within the National Electric Safety Code.
- 4.1.1.2 With respect to multiple-line termination devices, HTI shall specify the quantity of NIDs it requires within such device.
- 4.1.1.3 Figure 1 shows a schematic of a NID.

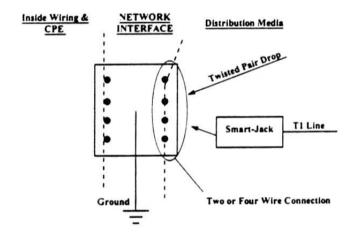


Figure 1 - Network Interface Device

4.1.2 Technical Requirements

4.1.2.1 The Network Interface Device shall provide a clean, accessible point of connection for the inside wiring and for the Distribution Media and shall maintain a connection to ground that means the requirements set forth below.

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4.1.2.2	The NID shall be capable of transferring electrical analog or digital signals between the customer's inside wiring and the Distribution Media.
4.1.2.3	All NID posts or connecting points shall be in place, secure, usable and free of any rust or corrosion. The protective ground connection shall exist and be properly installed. The ground wire will also be free of rust or corrosion and have continuity relative to ground.
4.1.2.4	The NID shall be capable of withstanding all normal local environmental variations.
4.1.2.5	Where the NID is not located in a larger, secure cabinet or closet, the NID shall be protected from physical vandalism. The NID shall be physically accessible to HTI designated personnel. In cases where entrance to the customer premises is required to give access to the NID, HTI shall obtain entrance permission directly from the customer.
4.1.2.6	BellSouth shall offer the NID together with, and separately from the Distribution Media component of Loop Distribution.
4.1.3	Interface Requirements
4.1.3.1	The NID shall be the interface to customers' premises wiring for alternative loop technologies.
4.1.3.2	BellSouth shall permit HTI to remove any existing terminations to the NID and replace them with terminations designated by HTI. BellSouth shall not remove or alter customer inside wiring.
4.1.3.3	The NID shall be equal to or better than all of the requirements for NIDs set forth in the following technical references:
4.1.3.3.1	Bellcore Technical Advisory TA-TSY-000120 "Customer Premises or Network Ground Wire";
4.1.3.3.2	Bellcore Generic Requirement GR-49-CORE "Generic Requirements for Outdoor Telephone Network Interface Devices";
4.1.3.3.3	Bellcore Technical Requirement TR-NWT-00239 "Indoor Telephone Network Interfaces";
4.1.3.3.4	Bellcore Technical Requirement TR-NWT-000937 "Generic Requirements for Outdoor and Indoor Building Entrance"; and
4.1.3.3.5	Bellcore Technical Requirement TR-NWT-000133 "Generic Requirements for Network Inside Wiring."

4.2 Distribution Media

Any request by HTI for unbundling of Distribution Media will be made pursuant to the Bona Fide Request Process identified in Section 1.1. of the General Terms and Conditions.

4.2.1 Definition

- Distribution Media provides connectivity between the NID component of Loop Distribution and the terminal block on the customer-side of a Feeder Distribution Interface (FDI). The FDI is a device that terminates the Distribution Media and the Loop Feeder, and cross-connects them in order to provide a continuous transmission path between the NID and a telephone company central office. For loop plant that contains a Loop Concentrator/Multiplexer, the Distribution Media may terminate at the FDI (if one exists), or at a termination and cross-connect field associated with the Loop Concentrator/Multiplexer. This termination and cross-connect field may be in the form of an outside plant distribution closure, remote terminal or fiber node, or an underground vault.
- The Distribution Media may be copper twisted pair, coax cable, or single or multi-mode fiber optic cable. A combination that includes two or more of these media is also possible. In certain cases, HTI shall require a copper twisted pair Distribution Media even in instances where the Distribution Media for services that BellSouth offers is other than a copper facility.

4.2.2 Requirements for All Distribution Media

- Distribution Media shall be capable of transmitting signals for the following services (as needed by HTI to provide end-to-end service capability to its customer):
- 4.2.2.1.1 2-wire voice grade basic telephone services;
- 4 2 2 1 2 2-wire ISDN;
- 4.2.2.1.3 2-wire CENTREX;
- 4.2.2.1.4 2 and 4-wire PBX lines or trunks;
- 4.2.2.1.5 2 and 4-wire voice grade private lines and foreign exchange lines;
- 4.2.2.1.6 4-wire digital data (2.4Kbps through 64Kbps and n times 64Kbps (where $n \le 24$); and
- 4.2.2.1.7 4-wire DS1 (switched or private line).

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 4.2.2.2 Distribution Media shall transmit all signaling messages or tones. Where the Distribution Media includes any active elements that terminate any of the signaling messages or tones, these messages or tones shall be reproduced by the Distribution Media at the interfaces to an adjacent Network Element in a format that maintains the integrity of the signaling messages or tones.

 4.2.2.3 Distribution Media shall support functions associated with provisioning, maintenance and testing of the Distribution Media itself, as well as provide necessary access to provisioning, maintenance and testing functions for Network Elements to which it is associated.
- 4.2.2.4 Distribution Media shall provide performance monitoring of the Distribution Media itself, as well as provide necessary access for performance monitoring for Network Elements to which it is associated.
- 4.2.2.5 Distribution Media shall be equal to or better than all of the applicable requirements set forth in the following technical references:
- 4.2.2.5.1 Bellcore TR-TSY-000057, "Functional Criteria for Digital Loop Carrier Systems"; and
- 4.2.2.5.2 Bellcore TR-NWT-000393, "Generic Requirements for ISDN Basic Access Digital Subscriber Lines."
- 4.2.2.6 BellSouth shall provide HTI with physical access to, and the right to connect to, the FDI.
- 4.2.2.6.1 BellSouth shall offer Distribution Media together with, and separately from the NID component of Loop Distribution.
- 4.2.3 Additional Requirements for Special Copper Distribution Media
 In addition to Distribution Media that supports the requirements in
 Section 4.2.2 (above), HTI may designate Distribution Media to be
 copper twisted pair which are unfettered by any intervening equipment
 (e.g., filters, load coils, range extenders) so that HTI can use these loops
 for a variety of services by attaching appropriate terminal equipment at
 the ends.
- 4.2.4 Additional Requirements for Fiber Distribution Media

 Fiber optic cable Distribution Media shall be capable of transmitting signals for the following services in addition to the ones under Section 4.2.2.1 above:
- 4.2.4.1 DS3 rate private line service;

Page 10 4.2.4.2 Optical SONET OC-n rate private lines (where n is defined in the technical reference in Section 5.2.4.4 of this Attachment 2; and 4.2.4.3 Analog Radio Frequency based services (e.g., Cable Television (CATV) Additional Requirements for Coaxial Cable Distribution Media 425 Coaxial cable (coax) Distribution Media shall be capable of transmitting signals for the following services in addition to the ones under Section 4.2.2.1 above: Broadband data, either one way or bi-directional, symmetric or 4.2.5.1 asymmetric, at rates between 1.5 Mb/s and 45 Mb/s; and Analog Radio Frequency based services (e.g. CATV). 4.2.5.2 426 Interface Requirements Signal transfers between the Distribution Media and the NID and an 4.2.6.1 adjacent Network Element shall have levels of degradation that are within the performance requirements set forth in Section 16.2 of this Attachment 2. Distribution Media shall be equal to or better than each of the applicable 4.2.6.2 interface requirements set forth in the following technical references: Bellcore TR-NWT-000049, "Generic Requirements for Outdoor 4.2.6.2.1 Telephone Network Interface Devices," Issued December 1,1994; Bellcore TR-NWT-000057, "Functional Criteria for Digital Loop Carrier 4.2.6.2.2 Systems," Issued January 2, 1993; Bellcore TR-NWT-000393, "Generic Requirements for ISDN Basic 4.2.6.2.3 Access Digital Subscriber Lines"; Bellcore TR-NWT-000253, SONET Transport Systems: Common Criteria 4.2.6.2.4 (A module of TSGR, FR-NWT-000440), Issue 2, December 1991; 4.2.6.2.5 DELETED DELETED 4.2.6.2.6 4.2.6.2.7 DELETED 5. Loop Concentrator/Multiplexer

Attachment 2

Any request by HTI for unbundling the Loop Concentrator/Multiplexer will be made pursuant to the Bona Fide Request Process identified in Section 1.1. of the General Terms and Conditions.

5.1 **Definition**

- 5.1.1 The Loop Concentrator/Multiplexer is the Network Element that: (1) aggregates lower bit rate or bandwidth signals to higher bit rate or bandwidth signals (multiplexing); (2) disaggregates higher bit rate or bandwidth signals to lower bit rate or bandwidth signals (demultiplexing); (3) aggregates a specified number of signals or channels to fewer channels (concentrating); (4) performs signal conversion, including encoding of signals (e.g., analog to digital and digital to analog signal conversion); and (5) in some instances performs electrical to optical (E/O) conversion.
- 5.1.2 The Loop Concentrator/Multiplexer function may be provided through a Digital Loop Carrier (DLC) system, channel bank, multiplexer or other equipment at which traffic is encoded and decoded, multiplexed and demultiplexed, or concentrated. In cases where this Network Element is required on an integrated DLC, BellSouth will provide it by a universal DLC alternative.

5.2 Technical Requirements

- 5.2.1 The Loop Concentrator/Multiplexer shall be capable of performing its functions on the signals for the following services, including but not limited to, (as needed by HTI to provide end-to-end service capability to its customer):
- 5.2.1.1 2-wire voice grade basic telephone services;
- 5.2.1.2 2-wire ISDN;
- 5.2.1.3 2-wire CENTREX;
- 5.2.1.4 2 and 4-wire PBX lines or trunks;
- 5.2.1.5 2 and 4-wire voice grade private lines and foreign exchange lines;
- 5.2.1.6 4-wire digital data (2.4Kbps through 64Kbps and n times 64Kbps (where n ≤ 24);
- 5.2.1.7 4-wire DS1 (switched or private line);
- 5.2.1.8 DS-3 rate private lines;

5.2.1.9	Optical SONET rate private lines; and
5.2.1.10	Coin services
5.2.2	The Loop Concentrator/Multiplexer shall perform the following functions as appropriate:
5.2.2.1	Analog to digital signal conversion of both incoming and outgoing (upstream and downstream) analog signals;
5.2.2.2	Multiplexing of the individual digital signals up to higher transmission bit rate signals (e.g., DSO, DS1, DS3, or optical SONET rates) for transport to BellSouth central office through the Loop Feeder; and
5.2.2.3	Concentration of end-user customer signals onto fewer channels of a Loop Feeder. (The concentration ratio provided for the Network Elements requested by HTI shall be no higher than the Loop Concentrator/Multiplexer concentration ratio BellSouth uses to provide service to its own customers.)
5.2.3	BellSouth shall provide power for the Loop Concentrator/ Multiplexer, through a non-interruptible source if the function is performed in a central office, or from a commercial AC power source with battery backup if the equipment is located outside a central office. Such power shall also adhere to the requirements stated in the Section 2 of Attachment 3.
5.2.4	The Loop Concentrator/Multiplexer shall be provided to HTI in accordance with the following Technical References:
5.2.4.1	Bellcore TR-NWT-000057, Functional Criteria for Digital Loop Carrier Systems, Issue 2, January 1993.
5.2.4.2	Bellcore TR-NWT-000393, Generic Requirements for ISDN Basic Access Digital Subscriber Lines.
5.2.4.3	ANSI T1.106 - 1988, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (Single Mode).
5.2.4.4	ANSI T1.105 - 1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats.
5.2.4.5	ANSI T1.102 - 1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces.

Attachment 2 Page 13 5.2.4.6 ANSI T1.403- 1989, American National Standard for Telecommunications - Carrier to Customer Installation, DS1 Metallic Interface Specification. Bellcore GR-253-CORE, Synchronous Optical Network Systems 5.2.4.7 (SONET), Common Generic Criteria. 5.2.4.8 DELETED 5.2.4.9 DELETED 5.2.4.10 DELETED 5.2.4.11 DELETED DELETED 5.2.4.12 Bellcore TR-TSY-000008, Digital Interface Between the SLC 96 Digital 5.2.4.13 Loop Carrier System and a Local Digital Switch, Issue 2, August 1987. Bellcore TR-NWT-000303, Integrated Digital Loop Carrier System 5.2.4.14 Generic Requirements, Objectives and Interface, Issue 2, December 1992; Rev.1, December 1993; Supplement 1, December 1993. 5.2.4.15 Bellcore TR-TSY-000673, Operations Systems Interface for an IDLC System, (LSSGR) FSD 20-02-2100, Issue 1, September 1989. 5.2.4.16 DELETED 5.2.4.17 DELETED 5.2.4.18 DELETED 5.2.4.19 DELETED Requirements for an Intelligent Loop Concentrator/Multiplexer 5.3 In addition to the basic functions described above for the Loop 5.3.1 Concentrator/Multiplexer, the Intelligent Loop Concentrator/Multiplexer (IC/M) shall provide facility grooming, facility test functions, format conversion and signaling conversion as appropriate. At HTI's option, BellSouth shall provide immediate and continuous 5.3.2 configuration and reconfiguration of the channels within the physical interfaces (i.e., of cross connects, as well as direct HTI control of such configurations and reconfigurations) on the underlying device that provides such IC/M function.

Attachment 2 Page 14 5.3.3 At HTI's option, BellSouth shall provide scheduled configuration and reconfiguration of the channels within the physical interfaces (i.e., of cross connects, as well as direct HTI control of such configurations and reconfigurations) on the underlying device that provides such IC/M function. The underlying equipment that provides such IC/M function shall 5.3.4 continuously monitor protected circuit packs and redundant common equipment. The underlying equipment that provides such IC/M function shall 5.3.5 automatically switch to a protection circuit pack on detection of a failure or degradation of normal operation. The underlying equipment that provides such IC/M function shall be 5.3.6 equipped with a redundant power supply or a battery back-up. 5.3.7 At HTI's option, BellSouth shall provide HTI with real time performance monitoring and alarm data on IC/M elements that may affect HTI's traffic. This includes IC/M hardware alarm data and facility alarm data on the underlying device that provides such IC/M function. At HTI's option, BellSouth shall provide HTI with real time ability to 5.3.8 initiate tests on the underlying device that provides such IC/M function integrated test equipment as well as other integrated functionality for routine testing and fault isolation. 5.3.9 DELETED 5.4 Interface Requirements The Loop Concentrator/Multiplexer shall meet the following interface requirements, as appropriate for the configuration that HTI designates: The Loop Concentrator/Multiplexer shall provide an analog voice 5.4.1 frequency copper twisted pair interface to the local switch (e.g., universal DLC applications), as described in the references in Section 5.2.4 of this Attachment. The Loop Concentrator/Multiplexer shall provide digital 4-wire electrical 5.4.2 interfaces to the local digital switch, as described in the references in Section 5.2.4 of this Attachment. 5.4.3 The Loop Concentrator/Multiplexer shall provide optical SONET interfaces at rates of OC-N as described in the references in Section 5.2.4 of this Attachment.

- 5.4.4 The Loop Concentrator/Multiplexer shall provide the Bellcore TR-303
 DS1 level interface to a Local Digital switch. Loop
 Concentrator/Multiplexer shall provide Bellcore TR-08 modes 1&2 DS1
 interfaces when designated by HTI. Such interface requirements are
 specified in the references in Section 5.2.4 of this Attachment.
- 5.4.5 The Loop Concentrator/Multiplexer shall provide Integrated Network Access (INA) DS1s for non-locally switched or non-switched special services, as described in the references in Section 5.2.4 of this Attachment.
- 5.5 The Intelligent Loop Concentrator/Multiplexer shall be provided to HTI in accordance with the Technical References set forth in Sections 5.2.4.13 through 5.2.4.19 above.

Loop Feeder

Any request by HTI for unbundling the Loop Feeder will be made pursuant to the Bona Fide Request Process identified in Section 1.1. of the General Terms and Conditions of this Agreement.

6.1 Definition

- The Loop Feeder is the Network Element that provides connectivity between (1) a FDI associated with Loop Distribution and a termination point appropriate for the media in a central office, or (2) a Loop Concentrator/Multiplexer provided in a remote terminal and a termination point appropriate for the media in a central office. BellSouth shall provide the necessary cabling between the BellSouth equipment (i.e. FDI) and HTI's equipment.
- The physical medium of the Loop Feeder may be copper twisted pair, or single or multi-mode fiber as designated by HTI and where available in the BellSouth network. In certain cases, BellSouth must provide a copper twisted pair loop even in instances where the medium of the Loop Feeder for services that BellSouth offers is other than a copper facility.

6.2 Requirements for All Loop Feeder Media

- 6.2.1 The Loop Feeder shall be capable of transmitting analog voice frequency, basic rate ISDN, digital data, or analog radio frequency signals, where available in the BellSouth network.
- 6.2.2 BellSouth shall provide appropriate power for all active elements in the Loop Feeder. BellSouth will provide appropriate power from a central

office source, or from a commercial AC source with rectifiers for AC to DC conversion and 8-hour battery back-up when the equipment is located in an outside plant Remote Terminal (RT).

6.3 Additional Requirements for Special Copper Loop Feeder Medium

In addition to requirements set forth in Section 6.2 above, and where available in the BellSouth network, HTI may require BellSouth to provide copper twisted pair Loop Feeder which are unfettered by any intervening equipment (e.g. filters, load coils, and range extenders), so that HTI can use these Loop Feeders for a variety of services by attaching appropriate terminal equipment at the ends.

6.4 Additional Technical Requirements for DS1 Conditioned Loop Feeder

In addition to the requirements set forth in Section 6.2 above, and where available in the BellSouth network, HTI may designate that the Loop Feeder be conditioned to transport a DS1 signal. The requirements for such transport are defined in the references below in Section 6.6.

6.5 Additional Technical Requirements for Optical Loop Feeder

In addition to the requirements set forth in Section 6.2 above, and where available in the BellSouth network, HTI may designate that Loop Feeder will transport DS3 and OCn (where n is defined in the technical reference in Section 5.2.4.4. The requirements for such transport are defined in the references below in Section 6.6.

BellSouth shall offer Loop Feeder in accordance with the requirements set forth in the following Technical References:

6.6.1 **DELETED**

6.6

6.6.2 Bellcore Technical Requirement TR-NWT-000499, Issue 5, December 1993, section 7 for DS1 interfaces;

6.6.3 DELETED

- 6.6.4 Bellcore TR-NWT-000057, Functional Criteria for Digital Loop Carrier Systems, Issue 2, January 1993.
- 6.6.5 Bellcore TR-NWT-000393, Generic Requirements for ISDN Basic Access Digital Subscriber Lines.
- 6.6.6 ANSI T1.106 1988, American National Standard for Telecommunications Digital Hierarchy Optical Interface Specifications (Single Mode).

Page 17 ANSI T1.105 - 1995, American National Standard for 6.6.7 Telecommunications - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats. 6.6.8 ANSI T1.102 - 1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces. 6.6.9 ANSI T1.403- 1989, American National Standard for Telecommunications - Carrier to Customer Installation, DS1 Metallic Interface Specification. 6.6.10 Bellcore GR-253-CORE, Synchronous Optical Network Systems (SONET), Common Generic Criteria. 6.6.11 DELETED 6.6.12 DELETED 6.6.13 DELETED 6.6.14 DELETED 6.7 Interface Requirements The Loop Feeder point of termination (POT) within a BellSouth central 671 office will be as follows: Copper twisted pairs shall terminate on the MDF; 6.7.1.1 DS1 Loop Feeder shall terminate on a DSX1, DCS1/0 or DCS3/1; and 6.7.1.2 6.7.1.3 Fiber Optic cable shall terminate on a LGX. 6.7.2 When requested by HTI: The Loop Feeder shall provide the analog voice frequency copper twisted pair interface for switched or private line services, as defined in the references in Section 6.6 of this Attachment. Where available in the BellSouth network, the Loop Feeder shall provide 6.7.2.1 the ISDN basic rate interface, as defined in the references in Section 6.6, to the local digital switch designated by HTI. 6.7.2.2 The Loop Feeder shall provide digital 4-wire electrical interfaces for digital data services, as defined in the references in Section 6.6 of this Attachment.

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- 6.7.2.3 The Loop Feeder shall provide the standard electrical DS1 interface for applications utilizing DS1 feeder, as defined in the references in Section 6.6 of this Attachment.
- 6.7.2.4 Where available in the BellSouth network, the Loop Feeder shall provide optical SONET interfaces at the OC-N rates as defined in the references in Section 6.6 of this Attachment.
- 6.7.3 Loop Feeder shall be equal to or better than each of the applicable interface requirements set forth in the following technical references:
- 6.7.3.1 Bellcore TR-TSY-000008, Digital Interface Between the SLC 96 Digital Loop Carrier System and a Local Digital Switch, Issue 2, August 1987.
- 6.7.3.2 Bellcore TR-NWT-000303, Integrated Digital Loop Carrier System Generic Requirements, Objectives and Interface, Issue 2, December 1992; Rev.1, December 1993; Supplement 1, December 1993.
- 6.7.3.3 **DELETED**
- 6.7.3.4 **DELETED**
- 6.7.3.5 **DELETED**
- 6.7.3.6 **DELETED**

Local Switching

7.1 Definition

7.1.1

Local Switching is the Network Element that provides the functionality required to connect the appropriate originating lines or trunks wired to the Main Distributing Frame (MDF) or Digital Cross Connect (DSX) panel to a desired terminating line or trunk. Such functionality shall include all of the features, functions, and capabilities that the underlying BellSouth switch that is providing such Local Switching function is then capable of providing, including but not limited to: line signaling and signaling software, digit reception, dialed number translations, call screening, routing, recording, call supervision, dial tone, switching, telephone number provisioning, announcements, calling features and capabilities (including call processing), CENTREX, Automatic Call Distributor (ACD), Carrier pre-subscription (e.g. long distance carrier, intraLATA toll), Carrier Identification Code (CIC) portability capabilities, testing and other operational features inherent to the switch and switch software. It also provides access to transport, signaling (ISDN User Part (ISUP) and Transaction Capabilities Application Part (TCAP), and platforms such as

adjuncts, Public Safety Systems (911), operator services, Directory Assistance Services and Advanced Intelligent Network (AIN). Remote Switching Module functionality is included in the Local Switching function. The switching capabilities used will be based on the line side features they support. Local Switching will also be capable of routing local, intraLATA, interLATA, and calls to international customer's preferred carrier; call features (e.g., call forwarding) and CENTREX capabilities. Local Switching, including the ability to route to HTI's transport facilities, dedicated facilities and systems, shall be unbundled from all other unbundled Network Elements, i.e., Operator Systems, Common Transport, and Dedicated Transport. In addition, BellSouth agrees to work with HTI and other ALECs on a routing resource conversation program and file a capacity expansion program to relieve routing resource constraints for 95% of the market. BellSouth and HTI shall continue to work with the appropriate industry groups to develop a long-term solution for selective routing. BellSouth may reserve for itself an appropriate and reasonable number of line class codes for its own use.

- 7.1.2 Local Switching also includes Data Switching, which provides:
- 7.1.2.1 For Frame Relay Service, data services switching functionality that is required to connect the facilities from the User to Network Interface (UNI) to either another UNI or to a communications path at the Network to Network Interface (NNI). In this case, the purpose of Data Switching is to terminate, concentrate, and switch data traffic from Customer Premises Equipment (CPE) in the digital format consistent with the UNI specification for the customer. Data Switching also provides connectivity for the purpose of conveying the customer data to its final destination. The UNI and NNI are industry standard interface specifications that contain physical transmission layer requirements for speeds and line formats; data link layer requirements for the format of the data units that are passed between the user and the network; and protocol requirements for control procedures used in managing the interface.
- 7.1.2.2 For ISDN Packet and Circuit Switched Data service, the data switching functionality that is required to connect between industry standard ISDN interfaces. In this case, the purpose of Data Switching is to terminate, concentrate, and switch data traffic from Customer Premises Equipment (CPE) in the digital format consistent with ISDN standards. Data Switching also provides connectivity for the purpose of conveying the customer data to its final destination.
- 7.2 The requirements set forth in this Section 7.2 apply to Local Switching, but not to the Data Switching function of Local Switching.

7.2.1	Technical Requirements
7.2.1.1	Local Switching shall be equal to or better than the requirements for Local Switching set forth in 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	BellSouth's local switch shall maintain translations necessary to direct AIN queries for selected lines and dialing sequences to the HTI SS7 network.
7.2.1.4	BellSouth's local switch shall accept mutually agreeable AIN responses from the HTI SCP via SS7 network interconnection then continue call handling according to instructions contained in the response.
7.2.1.5	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 HTI will be made pursuant to the Bona Fide Request Process identified in Section 1.1 of this Agreement.
7.2.1.6	BellSouth shall provide unbranded recorded announcements and call progress tones to alert callers of call progress and disposition.
7.2.1.7	BellSouth shall activate service for an HTI customer or network interconnection on any of the Local Switching interfaces. This includes provisioning changes to change a customer from BellSouth's services to HTI's services without loss of switch feature functionality as defined in this Agreement.
7.2.1.8	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.
7.2.1.9	BellSouth shall repair and restore any equipment or any other maintainable component that may adversely impact Local Switching.
7.2.1.10	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.

Attachment 2 Page 21 7.2.1.11 BellSouth shall perform manual call trace and permit customer originated call trace. 7.2.1.12 DELETED 7.2.1.13 For Local Switching used as 911 Tandems, BellSouth shall allow interconnection from HTI local switching elements and BellSouth shall route the calls to the appropriate Public Safety Access Point (PSAP). 7.2.1.14 Special Services provided by BellSouth will include the following: Essential Service Lines: 7.2.1.14.1 7.2.1.14.2 Telephone Service Prioritization; 7.2.1.14.3 Related services for handicapped; 7.2.1.14.4 Soft dial tone where required by law; and 7.2.1.14.5 Any other service required by law. 7.2.1.15 BellSouth shall provide Switching Service Point (SSP) capabilities and signaling software to interconnect the signaling links destined to the Signaling Transfer Point Switch (STPS). These capabilities shall adhere to 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). 7.2.1.16 BellSouth shall provide interfaces to adjuncts through Bellcore standard interfaces. These adjuncts can include, but are not limited to, the Service Circuit Node and Automatic Call Distributors. 7.2.1.17 BellSouth shall provide performance data regarding a customer line, traffic characteristics or other measurable elements to HTI, upon a reasonable request from HTI. BellSouth shall offer Local Switching that provides feature offerings at 7.2.1.18 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 18 1 Basic and primary rate ISDN; 7.2.1.18.2 Residential features: 7.2.1.18.3 Customer Local Area Signaling Services (CLASS/LASS);

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7.2.1.18.4	CENTREX (including equivalent administrative capabilities, such as customer accessible reconfiguration and detailed message recording); and
7.2.1.18.5	Advanced intelligent network triggers supporting HTI and BellSouth service applications.
	BellSouth shall offer to HTI all AIN triggers which are supported by BellSouth for offering AIN-based services in accordance with the technical references in Section 7.2.1.23 of this Attachment. Triggers that are currently available include:
7.2.1.18.5.1	Off-Hook Immediate
7.2.1.18.5.2	Off-Hook Delay
7.2.1.18.5.3	Termination Attempt
7.2.1.18.5.4	3/6/10 Public Office Dialing Plan
7.2.1.18.5.5	Feature Code Dialing
7.2.1.18.5.6	Customer Dialing Plan
7.2.1.18.6	When the following triggers are supported by BellSouth, BellSouth will make these triggers available to HTI:
7.2.1.18.6.1	Private EAMF Trunk
7.2.1.18.6.2	Shared Interoffice Trunk (EAMF, SS7)
7.2.1.18.6.3	N11
7.2.1.18.6.4	Automatic Route Selection
7.2.1.19	BellSouth shall assign each HTI customer line the class of service designated by HTI (e.g., using line class codes or other switch specific provisioning methods), and shall route directory assistance calls from HTI customers to HTI directory assistance operators at HTI's option.
7.2.1.20	BellSouth shall assign each HTI customer line the class of services designated by HTI (e.g., using line class codes or other switch specific provisioning methods) and shall route operator calls from HTI customers to HTI operators at HTI's option. For example, BellSouth may translate 0- and 0+ intraLATA traffic, and route the call through appropriate trunks to an HTI Operator Services Position System (OSPS). Calls from Local Switching must pass the ANI-II digits unchanged.

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7.2.1.21	If HTI requests disconnection of the Local Switching element, BellSouth shall disconnect promptly and remove all appropriate translations from BellSouth facilities.
7.2.1.22	If an HTI customer subscribes to HTI provided voice mail and messaging services, BellSouth shall redirect incoming calls to the HTI system based upon presubscribed service arrangements (e.g., busy, don't answer, number of rings). In addition, BellSouth shall provide a Standard Message Desk Interface-Enhanced (SMDI-E) interface to the HTI system. BellSouth shall support the Inter-switch Voice Messaging Service (IVMS) capability.
7.2.1.23	Local Switching shall be offered in accordance with the requirements of the following technical references:
7.2.1.23.1	GR-1298-CORE, AIN Switching System Generic Requirements, as implemented in BellSouth's switching equipment;
7.2.1.23.2	GR-1299-CORE, AIN Switch-Service Control Point (SCP)/Adjunct Interface Generic Requirements;
7.2.1.23.3	TR-NWT-001284, AIN 0.1 Switching System Generic Requirements;
7.2.1.23.4	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 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 Bellcore Technical Requirements;

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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 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 HTI;
7.2.2.12	Interface to HTI operator services systems or Operator Services through appropriate trunk interconnections for the system; and
7.2.2.13	Interface to HTI directory assistance services through the HTI switched network or to Directory Assistance Services through the appropriate trunk interconnections for the system; and 950 access or other HTI required access to interexchange carriers as requested through appropriate trunk interfaces.
7.3	Data Switching The requirements set forth in this Section 7.3 apply only to the Data Switching function of Local Switching.
7.3.1	Data Switching Technical Requirements
7.3.1.1	Data Switching includes the necessary cross-office connectivity to the DSX or other appropriate connection point where interconnection to transport, or a cross-connect device can occur. Wherever Data Switching interconnects across network boundaries, it shall be in accordance with Network-to-Network Interface standards.
7.3.1.2	Frame Relay Functional Requirements
7.3.1.3	Frame Relay Data Switching shall provide Permanent Virtual Circuits (PVCs) in accordance with the core protocol in ANSI Standard T1.618 ("Core aspects of Frame Protocol for use with Frame Relay Bearer Service," ANSI Standard T1.618, October 1991).
7.3.1.4	Control procedures for PVC management that shall be provided by Data Switching over the UNI include at least the Local Management interface (LMI) (as described in "Frame Relay Specification with Extensions," Rev 1.0, Digital Equipment Corporation, Northern Telecom, Inc., and StrataCom, Inc., September 18, 1990), ANSI Standard T1.617: Annex D ("Signaling Specification for Frame Relay Bearer Service," ANSI Standard T1.617, October 1991), and ITU-T Recommendation Q.933: Annex A ("Digital subscriber Signaling System No. 1 Signaling

specification for frame mode bearer service," ITU-T Recommendation Q.933, March 1993) specifications.

- Data Switching provided to HTI shall be given equal priority to 7.3.1.5 BellSouth's own traffic during overflow and congestion conditions. To control the flow of data through the network and to prevent congestion of shared resources, Data Switching shall perform traffic management and policing functions on the ingress of data (flowing from customer into the network) and the egress of data (flowing from the network out to the customer). Traffic management is the mechanism used by Data Switching to prevent and reduce congestion within the network, such as buffering data and discarding data when buffers overflow, and may be performed on ingress or egress. Traffic policing is the enforcement by Data Switching of the contracted rate for the ingress of data, described in terms of several parameters such as Peak Rate, Committed Rate, and Burst Size. Traffic management and policing performed at ingress and egress on HTI's traffic shall be at parity with that performed on BellSouth's traffic.
- 7.3.1.6 As systems development allows, Data Switching shall provide remote data access to integrated test equipment and other integrated functionality on a demand basis in accordance with the following:
- 7.3.1.7 Real-time, remote data access to systems that enable the determination of Data Link Connection Identifiers (DLCIs) used by a PVC;
- 7.3.1.8 Real-time, remote data access to performance monitoring and alarm data on events affecting (or potentially affecting) HTI's traffic; and
- 7.3.1.9 Real-time, remote data access to maintenance systems to enable endto-end (customer site-to-customer site) performance and error testing.
- 7.3.1.10 BellSouth shall provision and maintain the underlying facilities required to provide Data Switching.

7.3.1.11 Frame Relay Interface Requirements

7.3.1.12 From Customer Premises Equipment (CPE), HTI's Customers may interconnect to Data Switching using the transmission speeds, formats, and protocols as specified in the Frame Relay Forum Implementation Agreement 1 (FRF-1.1) ("User-to-Network Implementation Agreement (UNI)," FRF-1.1, Frame Relay Forum Technical Committee, January 18, 1996) and the standards cited in that document for the physical layer, data transfer, and control procedures. This includes, but is not limited to, access circuits at fractional T1 rates (56Kbps, Nx64 Kbps, (where N is 1 to 24)), T1, and T3.

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7.3.1.13	Each T1 UNI interface port shall provide at least 250 PVCs or the appropriate number of PVC's allowed by the platform.
7.3.1.14	T1 interfaces shall be provided using Extended SuperFrame (ESF) format, for enhanced error monitoring and to aid in sectionalizing problems.
7.3.1.15	NNI Interface B Requirements
7.3.1.16	Data Switching shall interconnect across network boundaries using the Network-to-Network Interface standards as specified in Frame Relay Forum Implementation Agreement 2 (FRF-2.1) ("Network -to-Network Implementation Agreement (NNI)," FRF-2.1, Frame Relay Forum Technical Committee, July 10, 1995) for the physical layer, data transfe and control (signaling) procedures. This standard includes both DS1 and DS3 among its listed physical interface formats.
7.3.1.17	Each T1 NNI should be capable of providing at least 200 PVCs; each T3 NNI should be capable of providing at least 1700 PVCs or the appropriate number of PVC's allowed by the platform.
7.3.1.18	DELETED
7.3.1.19	DELETED
7.3.1.20	ATM Functional Requirements: When ATM functionality becomes available, BellSouth will provide these functions to HTI. In addition BellSouth agrees to conform to industry standard (e.g. Bellcore standards).
7.3.1.20.1	DELETED
7.3.1.20.2	DELETED
7.3.1.20.3	DELETED
7.3.1.20.3.1	DELETED
7.3.1.20.3.2	DELETED
7.3.1.20.3.3	DELETED
7.3.1.20.4	DELETED
7.3.1.20.5	DELETED
7.3.1.21	DELETED

7.3.1.21.1	DELETED
7.3.1.21.1.1	DELETED
7.3.1.21.1.2	DELETED
7.3.1.21.2	DELETED
7.3.1.21.3	DELETED
7.3.1.21.4	DELETED
7.3.1.21.4.1	DELETED
7.3.1.21.4.2	DELETED
7.3.1.21.4.3	DELETED
7.3.1.21.4.4	DELETED
7.3.1.21.4.5	DELETED
7.3.1.21.4.6	DELETED
7.3.1.21.5	DELETED
7.3.1.21.6	DELETED
7.3.1.21.6.1	DELETED
7.3.1.21.6.2	DELETED
7.3.1.21.6.3	DELETED
7.3.1.21.6.4	DELETED
7.3.1.21.6.5	DELETED
7.3.1.21.6.6	DELETED
7.3.1.21.6.7	DELETED
7.3.1.21.6.7.1	DELETED
7.3.1.21.6.7.2	DELETED
7.3.1.21.6.7.3	DELETED
7.3.1.21.6.8	DELETED

7.3.1.22 Integrated Services Digital Network (ISDN)

Integrated Services Digital Network (ISDN) is defined in two variations. The first variation is Basic Rate ISDN (BRI). BRI consists of 2 Bearer (B) Channels and one Data (D) Channel. The second variation is Primary Rate ISDN (PRI). PRI consists of 23 B Channels and one D Channel. Both BRI and PRI B Channels may be used for voice, Circuit Switched Data (CSD) or Packet Switched Data (PSD). The BRI D Channel may be used for call related signaling or packet switched data. The PRI D Channel may be used for call related signaling.

- 7.3.1.22.1 Technical Requirements - ISDN BellSouth shall offer Data Switching providing ISDN that, at a minimum: 7.3.1.22.2 7.3.1.22.3 Provides integrated packet handling capabilities; Allows for full 2B+D Channel functionality for BRI; and 7.3.1.22.4 Allows for full 23B+D Channel functionality for PRI. 7.3.1.22.5 Each B Channel shall allow for voice, 64Kbs CSD, and PSD of 128 7.3.1.22.6 logical channels at minimum speeds of 19Kbs throughput of each logical channel up to the total capacity of the B Channel. Each B Channel shall provide capabilities for alternate voice and data on 7.3.1.22.7 a per call basis. 7.3.1.22.8 The BRI D Channel shall allow for call associated signaling, non-call associated signaling and PSD of 16 logical channels at minimum speeds of 9.6 Kbs throughput of each logical channel up to the total capacity of
- 7.3.1.22.9 The PRI D Channel shall allow for call associated signaling.
- 7.3.1.22.10 Interface Requirements ISDN

the D Channel.

- 7.3.1.22.11 BellSouth shall provide the BRI U interface using 2 wire copper loops in accordance with TR-NWT-000393, January 1991, Generic Requirements for ISDN Basic Access Digital Subscriber Lines.
- 7.3.1.22.12 BellSouth shall provide the BRI interface using Digital Subscriber Loops adhering to Bellcore TR-NWT-303 specifications to interconnect Digital Loop Carriers.

- 7.3.1.22.13 BellSouth shall offer PSD interfaces adhering to the X.25, S.75 and S.75' ANSI and Bellcore requirements.
- 7.3.1.22.14 BellSouth shall offer PSD trunk interfaces operating at 56Kbs.

8. Operator Systems

8.1 Definition

Operator Systems is the Network Element that provides operator and automated call handling and billing, special services, customer 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.

8.2 Operator Service

8.2.1 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 customer 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.

8.2.2 Requirements

- 8.2.2.1 When HTI requests BellSouth to provide Operator Services, the following requirements apply:
- 8.2.2.1.1 BellSouth shall complete 0+ and 0- dialed local calls.
- 8.2.2.1.2 BellSouth shall complete 0+ intraLATA toll calls.
- 8.2.2.1.3 BellSouth shall complete calls that are billed to an HTI customer's calling card that can be validated by BellSouth.
- 8.2.2.1.4 BellSouth shall complete person-to-person calls.
- 8.2.2.1.5 BellSouth shall complete collect calls.
- 8.2.2.1.6 BellSouth shall provide the capability for callers to bill to a third party and complete such calls.

	Attachment 2 Page 30
8.2.2.1.7	BellSouth shall complete station-to-station calls.
8.2.2.1.8	BellSouth shall process emergency calls.
8.2.2.1.9	BellSouth shall process Busy Line Verify and Emergency Line Interrupt requests.
8.2.2.1.10	BellSouth shall process emergency call trace, as they do for their Customers prior to the Effective Date. Call must originate from a 911 provider.
8.2.2.1.11	BellSouth shall process operator-assisted directory assistance calls.
8.2.2.1.12	DELETED
8.2.2.1.13	DELETED
8.2.2.1.14	BellSouth will provide the ability for an HTI Customer to reach a "live" operator on a 0-call.
8.2.2.1.15	BellSouth shall brand Operator Service as specified by HTI in Section 19 of the General Terms and Conditions of this Agreement.
8.2.2.2	DELETED
8.2.2.3	BellSouth shall adhere to equal access requirements, providing HTI local customers the same IXC access as provided to BellSouth customers.
8.2.2.4	BellSouth shall exercise at least the same level of fraud control in providing Operator Service to HTI that BellSouth provides for its own operator service.
8.2.2.5	BellSouth shall perform Billed Number Screening when handling Collect, Person-to-Person, and Billed-to-Third-Party calls.
8.2.2.6	DELETED
8.2.2.7	BellSouth shall direct customer account and other similar inquiries to the customer service center designated by HTI.
8.2.2.8	BellSouth shall provide an electronic feed of customer call records in "EMR" format to HTI in accordance with the time schedule designated by HTI.
8.2.2.9	DELETED
8.2.3	Interface Requirements:

With respect to Operator Services for calls that originate on local switching capability provided by or on behalf of HTI, 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.

8.3 Directory Assistance Service

8.3.1 Definition

Directory Assistance Service provides local customer telephone number listings with the option to complete the call at the callers direction separate and distinct from local switching.

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8.3.2 Requirements

- 8.3.2.1 Directory Assistance Service shall provide up to two listing requests per call. If available and if requested by HTI's customer, BellSouth shall provide caller-optional directory assistance call completion service to one of the provided listings, equal to that which BellSouth provides its customers. If not available, HTI may request such requirement pursuant to the Bona Fide Request Process provided for in Attachment 14 of this Agreement.
- 8.3.2.2 BellSouth shall brand Directory Assistance Service as specified by HTI in Section 19 of the General Terms and Conditions of this Agreement.

8.3.2.3 **DELETED**

8.3.2.4 **DELETED**

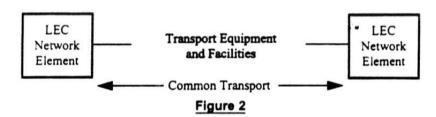
8.3.2.5 Directory Assistance Service Updates

- 8.3.2.5.1 BellSouth shall update customer listings changes daily. These changes include:
- 8.3.2.5.1.1 New customer connections: BellSouth will provide service to HTI that is equal to the service it provides to itself and its customers;
- 8.3.2.5.1.2 Customer disconnections: BellSouth will provide service to HTI that is equal to the service it provides to itself and its customers; and
- 8.3.2.5.1.3 Customer address changes: BellSouth will provide service to HTI that is equal to the service it provides to itself and its customers;
- 8.3.2.6 These updates shall also be provided for non-listed and non-published numbers for use in emergencies.

9. Common Transport

9.1 **Definition**

Common Transport is an interoffice transmission path between BellSouth Network Elements (illustrated in Figure 2). Where BellSouth Network Elements are connected by intra-office wiring, such wiring is provided as a part of the Network Elements and is not Common Transport. Common Transport consists of BellSouth inter-office transport facilities and is unbundled from local switching.



9.2 Technical Requirements

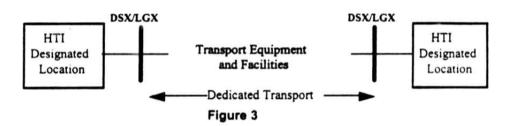
- 9.2.1 Common Transport provided on DS1 or VT1.5 circuits, shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for Central Office to Central Office "CO to CO" connections in the technical reference set forth in Section 9.2.4.31 of this Attachment 2.
- 9.2.2 Common Transport provided on DS3 circuits, STS-1 circuits, and higher transmission bit rate circuits, Common Transport 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 technical reference set forth in Section 9.2.4.30 of this Attachment 2.
- 9.2.3 BellSouth shall be responsible for the engineering, provisioning, and maintenance of the underlying equipment and facilities that are used to provide Common Transport.
- 9.2.4 At a minimum, Common Transport shall meet all of the requirements set forth in the following technical references (as applicable for the transport technology being used):
- 9.2.4.1 ANSI T1.101-1994, American National Standard for Telecommunications
 Synchronization Interface Standard Performance and Availability;

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9.2.4.2	ANSI T1.102-1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces;
9.2.4.3	ANSI T1.102.01-199x, American National Standard for Telecommunications - Digital Hierarchy - VT1.5;
9.2.4.4	ANSI T1.105-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats;
9.2.4.5	ANSI T1.105.01-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Automatic Protection Switching;
9.2.4.6	ANSI T1.105.02-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Payload Mappings;
9.2.4.7	ANSI T1.105.03-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Jitter at Network Interfaces;
9.2.4.8	ANSI T1.105.03a-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET): Jitter at Network Interfaces - DS1 Supplement;
9.2.4.9	ANSI T1.105.05-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Tandem Connection;
9.2.4.10	ANSI T1.105.06-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Physical Layer Specifications;
9.2.4.11	ANSI T1.105.07-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Sub STS-1 Interface Rates and Formats;
9.2.4.12	ANSI T1.105.09-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Network Element Timing and Synchronization;
9.2.4.13	ANSI T1.106-1988, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (Single Mode);
9.2.4.14	ANSI T1.107-1988, American National Standard for Telecommunications - Digital Hierarchy - Formats Specifications;

Page 34 ANSI T1.107a-1990 - American National Standard for 9 2 4 15 Telecommunications - Digital Hierarchy - Supplement to Formats Specifications (DS3 Format Applications): ANSI T1.107b-1991 - American National Standard for 9.2.4.16 Telecommunications - Digital Hierarchy - Supplement to Formats Specifications: ANSI T1.117-1991, American National Standard for Telecommunications 9.2.4.17 - Digital Hierarchy - Optical Interface Specifications (SONET) (Single Mode - Short Reach): ANSI T1.403-1989, Carrier to Customer Installation, DS1 Metallic 9.2.4.18 Interface Specification; ANSI T1.404-1994, Network-to-Customer Installation - DS3 Metallic 9.2.4.19 Interface Specification: ITU Recommendation G.707. Network node interface for the 9.2.4.20 synchronous digital hierarchy (SDH); ITU Recommendation G.704, Synchronous frame structures used at 9.2.4.21 1544, 6312, 2048, 8488 and 44736 kbit/s hierarchical levels; Bellcore FR-440 and TR-NWT-000499, Transport Systems Generic 9.2.4.22 Requirements (TSGR): Common Requirements; Bellcore GR-820-CORE, Generic Transmission Surveillance: DS1 & 92423 DS3 Performance: Bellcore GR-253-CORE, Synchronous Optical Network Systems 9.2.4.24 (SONET); Common Generic Criteria; Bellcore TR-NWT 000507, Transmission, Section 7, Issue 5 (Bellcore, 9.2.4.25 December 1993). (A module of LSSGR, FR-NWT-000064.); Bellcore TR-NWT-000776, Network Interface Description for ISDN 9.2.4.26 Customer Access: Bellcore TR-INS-000342, High-Capacity Digital Special Access Service-9.2.4.27 Transmission Parameter Limits and Interface Combinations, Issue 1 February 1991; 9.2.4.28 Bellcore ST-TEC 000052, Telecommunications Transmission Engineering Textbook, Volume 2: Facilities, Third Edition, Issue I May 1989:

Attachment 2

- 9.2.4.29 Bellcore ST-TEC-000051, Telecommunications Transmission Engineering Textbook Volume 1: Principles, Third Edition. Issue 1 August 1987;
- 9.2.4.30 **DELETED**
- 9.2.4.31 **DELETED**
- 10. Dedicated Transport
- 10.1 Definition
- 10.1.1.1 Dedicated Transport is an interoffice transmission path between HTI designated locations unbundled from local switching. HTI designated locations may include BellSouth central offices or other equipment locations, HTI network components, other carrier network components, or customer premises. Dedicated Transport is depicted below in Figure 3.



- 10.1.2 BellSouth shall offer Dedicated Transport in each of the following ways:
- 10.1.2.1 As capacity on a shared circuit.
- 10.1.2.2 As a circuit (e.g., DS1, DS3, STS-1) dedicated to HTI.
- 10.1.2.3 As a system (i.e., the equipment and facilities used to provide Dedicated Transport such as SONET ring) dedicated to HTI.
- 10.1.3 When Dedicated Transport is provided as a circuit or as capacity on a shared circuit, it shall include (as appropriate):
- 10.1.3.1 Multiplexing functionality;
- 10.1.3.2 Grooming functionality; and

	Attachment 2 Page 36
10.1.3.3	Redundant equipment and facilities necessary to support protection and restoration.
10.1.4	When Dedicated Transport is provided as a system it shall include:
10.1.4.1	Transmission equipment such as multiplexers, line terminating equipment, amplifiers, and regenerators;
10.1.4.2	Inter-office transmission facilities such as optical fiber, copper twisted pair, and coaxial cable;
10.1.4.3	Redundant equipment and facilities necessary to support protection and restoration; and
10.1.4.4	Dedicated Transport includes the Digital Cross-Connect System (DCS) functionality as an option. DCS is described below in Section 10.5 of this Attachment.
10.2	Technical Requirements
	This Section sets forth technical requirements for all Dedicated Transport.
10.2.1	When BellSouth provides Dedicated Transport as a circuit or a system, the entire designated transmission circuit or system (e.g., DS1, DS3, STS-1) shall be dedicated to HTI designated traffic.
10.2.2	BellSouth shall offer Dedicated Transport in all technologies that become available during the life of the contract 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.
10.2.3	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 technical references set forth in Section 10.4 of this Attachment.
10.2.4	For DS3 circuits, STS-1 circuits, and higher rate 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 technical references set forth in

Section 10.4 of this Attachment.

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10.2.5	When requested by HTI, Dedicated Transport shall provide physical diversity. Physical diversity means that two circuits are provisioned in such a way that no single failure of facilities or equipment will cause a failure on both circuits.
10.2.6	When physical diversity is requested by HTI, BellSouth shall provide the maximum feasible physical separation between intra-office and inter-office transmission paths (unless otherwise agreed by HTI).
10.2.7	Upon HTI's request, BellSouth shall provide real time and eontinuous remote access to performance monitoring and alarm data affecting, or potentially affecting, HTI's traffic.
10.2.8	BellSouth shall offer the following interface transmission rates for Dedicated Transport:
10.2.8.1	DS1 (Extended SuperFrame - ESF, D4, and unframed applications shall be provided);
10.2.8.2	DS3 (C-bit Parity, M13, and unframed applications shall be provided);
10.2.8.3	SONET standard interface rates in accordance with ANSI T1.105 and ANSI T1.105.07 and physical interfaces per ANSI T1.106.06 (including referenced interfaces). In particular, VT1.5 based STS-1s will be the interface at an HTI service node.
10.2.8.4	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.
10.2.9	BellSouth shall provide cross-office wiring up to a suitable Point of Termination (POT) between Dedicated Transport and HTI designated equipment. BellSouth shall provide the following equipment for the physical POT:
10.2.9.1	DSX1 for DS1s or VT1.5s;
10.2.9.2	DSX3 for DS3s or STS-1s; and
10.2.9.3	LGX for optical signals (e.g., OC-3 and OC-12)
10.2.10	DELETED
10.2.11	When Dedicated Transport is provided as a system, BellSouth shall design the system according to HTI's architectural requirements. This includes but is not limited to:

- 1. Facility routing and termination points (including diversity requirements),
- 2. Interface selection among those available on the system,
- 3. System provisionable parameters (e.g. protection switching thresholds). This does not include specification of the vendor to be used by BellSouth, except where mutually agreed.
- 10.2.12 Upon HTI's request, BellSouth shall provide HTI with electronic provisioning control of HTI rings. As system development allows, BellSouth shall provide this functionality in other transport systems (e.g. linear transport systems.)
- 10.2.13 BellSouth shall offer Dedicated Transport together with and separately from DCS.
- 10.3 Technical Requirements for Dedicated Transport Using SONET technology.

This Section sets forth additional technical requirements for Dedicated Transport using SONET technology including rings, point-to-point systems, and linear add-drop systems.

- 10.3.1 All SONET Dedicated Transport provided as a system shall:
- 10.3.1.1 Be synchronized from both a primary and secondary Stratum 1 level timing source. Additional detail on synchronization requirements are given in Section 16.4 of this Attachment 2.
- 10.3.1.2 Provide SONET standard interfaces which properly interwork with SONET standard equipment from other vendors. This includes, but is not limited to, SONET standard Section, Line, and Path performance monitoring, maintenance signals, alarms, and data channels.
- 10.3.1.3 Provide Data Communications Channel (DCC) or equivalent connectivity through the SONET transport system. Dedicated Transport provided over a SONET transport system shall be capable of routing DCC messages between HTI SONET network components connected to the Dedicated Transport. For example, if HTI leases a SONET ring from BellSouth, that ring shall support DCC message routing between HTI SONET network components connected to the ring.
- 10.3.1.4 Support the following performance requirements for each circuit (STS-1, DS1, DS3, etc.):

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10.3.1.5	No more than 10 Errored Seconds Per Day (Errored Seconds are defined in the technical reference at Section 10.4.5 of this Attachment); and
10.3.1.6	No more than 1 Severely Errored Second Per Day (Severely Errored Seconds are defined in the technical reference at Section 10.4.5 of this Attachment).
10.3.1.7	All SONET rings shall:
10.3.1.8	Be provisioned on physically diverse fiber optic cables (including separate building entrances where available and diversely routed intra-office wiring). "Diversely routed" shall be interpreted as the maximum feasible physical separation between transmission paths, unless otherwise agreed by HTI.
10.3.1.9	Support dual ring interworking per SONET Standards.
10.3.1.10	To the extent technically feasible, BellSouth shall provide the necessary redundancy in optics, electronics, and transmission paths (including intra-office wiring) such that no single failure will cause a service interruption.
10.3.1.11	Provide the ability to disable ring protection switching at HTI's direction (selective protection lock-out), if BellSouth's SONET equipment provides this functionality. This requirement applies to line switched rings only.
10.3.1.12	Provide the ability to use the protection channels to carry traffic (extra traffic), if BellSouth's SONET equipment provides this functionality. This requirement applies to line switched rings only.
10.3.1.13	Provide 50 millisecond restoration unless a ring protection delay is set to accommodate dual ring interworking schemes.
10.3.1.14	Have settable ring protection switching thresholds that shall be set in accordance with HTI's specifications.
10.3.1.15	Provide revertive protection switching with a settable wait to restore delay with a default setting of 5 minutes. This requirement applies to line switched rings only.
10.3.1.16	Provide non-revertive protection switching. This requirement applies to path switched rings only.
10.3.1.17	Adhere to the following availability requirements, where availability is defined in the technical reference set forth in Section 10.4.5 of this Attachment.

10.3.1.17.1	For any circuit through the ring, no more than 3.5 minutes of unavailability per month.
10.3.1.17.2	For any circuit through the ring, no more than 10 minutes of unavailability per year.
10.4	At a minimum, Dedicated Transport shall meet each of the requirements set forth in Section 9.2.4 of this Attachment and in the following technical references:
10.4.1	ANSI T1.105.04-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Data Communication Channel Protocols and Architectures;
10.4.2	ANSI T1.119-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications;
10.4.3	ANSI T1.119.01-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications Protection Switching Fragment;
10.4.4	ANSI T1.119.02-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Operations, Administration, Maintenance, and Provisioning (OAM&P) Communications Performance Monitoring Fragment;
10.4.5	ANSI T1.231-1993 -American National Standard for Telecommunications - Digital Hierarchy - Layer 1 In-Service Digital Transmission performance monitoring.
10.4.6	DELETED
10.4.7	DELETED
10.4.8	DELETED
10.4.9	DELETED
10.4.9.1	ANSI T1.101-1994, American National Standard for Telecommunications - Synchronization Interface Standard Performance and Availability;
10.4.9.2	ANSI T1.102-1993, American National Standard for Telecommunications - Digital Hierarchy - Electrical Interfaces;

Attachment 2 Page 41 10.4.9.3 ANSI T1.102.01-199x, American National Standard for Telecommunications - Digital Hierarchy - VT1.5; ANSI T1.105-1995, American National Standard for Telecommunications 10494 - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats; ANSI T1.105.01-1995, American National Standard for 10.4.9.5 Telecommunications - Synchronous Optical Network (SONET) -Automatic Protection Switching: ANSI T1.105.02-1995, American National Standard for 10.4.9.6 Telecommunications - Synchronous Optical Network (SONET) - Payload Mappings: ANSI T1.105.03-1994, American National Standard for 10.4.9.7 Telecommunications - Synchronous Optical Network (SONET) - Jitter at Network Interfaces: ANSI T1.105.03a-1995, American National Standard for 10.4.9.8 Telecommunications - Synchronous Optical Network (SONET): Jitter at Network Interfaces - DS1 Supplement; ANSI T1.105.05-1994, American National Standard for 10.4.9.9 Telecommunications - Synchronous Optical Network (SONET) - Tandem Connection: ANSI T1.105.06-199x, American National Standard for 10.4.9.10 Telecommunications - Synchronous Optical Network (SONET) - Physical Layer Specifications; ANSI T1.105.07-199x, American National Standard for 10.4.9.11 Telecommunications - Synchronous Optical Network (SONET) - Sub STS-1 Interface Rates and Formats: ANSI T1.105.09-199x, American National Standard for 10.4.9.12 Telecommunications - Synchronous Optical Network (SONET) - Network Element Timing and Synchronization; ANSI T1.106-1988, American National Standard for Telecommunications 10.4.9.13 - Digital Hierarchy - Optical Interface Specifications (Single Mode); ANSI T1.107-1988, American National Standard for Telecommunications 10.4.9.14 - Digital Hierarchy - Formats Specifications;

10.4.9.15	ANSI T1.107a-1990 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications (DS3 Format Applications);
10.4.9.16	ANSI T1.107b-1991 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications;
10.4.9.17	ANSI T1.117-1991, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (SONET) (Single Mode - Short Reach);
10.4.9.18	ANSI T1.403-1989, Carrier to Customer Installation, DS1 Metallic Interface Specification;
10.4.9.19	ANSI T1.404-1994, Network-to-Customer Installation - DS3 Metallic Interface Specification;
10.4.9.20	ITU Recommendation G.707, Network node interface for the synchronous digital hierarchy (SDH);
10.4.9.21	ITU Recommendation G.704, Synchronous frame structures used at 1544, 6312, 2048, 8488 and 44736 kbit/s hierarchical levels;
10.4.9.22	Bellcore FR-440 and TR-NWT-000499, Transport Systems Generic Requirements (TSGR): Common Requirements;
10.4.9.23	Bellcore GR-820-CORE, Generic Transmission Surveillance: DS1 & DS3 Performance;
10.4.9.24	Bellcore GR-253-CORE, Synchronous Optical Network Systems (SONET); Common Generic Criteria;
10.4.9.25	Bellcore TR-NWT 000507, Transmission, Section 7, Issue 5 (Bellcore, December 1993). (A module of LSSGR, FR-NWT-000064.);
10.4.9.26	Bellcore TR-NWT-000776, Network Interface Description for ISDN Customer Access;
10.4.9.27	Bellcore TR-INS-000342, High-Capacity Digital Special Access Service- Transmission Parameter Limits and Interface Combinations, Issue 1 February 1991;
10.4.9.28	Bellcore ST-TEC 000052, Telecommunications Transmission Engineering Textbook, Volume 2: Facilities, Third Edition, Issue I May 1989;

	Attachment 2 Page 43
10.4.9.29	Bellcore ST-TEC-000051, Telecommunications Transmission Engineering Textbook Volume 1: Principles, Third Edition. Issue 1 August 1987;
10.4.9.30	DELETED
10.4.9.31	DELETED
10.5	Digital Cross-Connect System (DCS)
10.5.1	Definition
10.5.1.1	DCS provides automated cross connection of Digital Signal level 0 (DS0) or higher transmission bit rate digital channels within physical interface facilities. Types of DCSs include but are not limited to DCS 1/0s, DCS 3/1s, and DCS 3/3s, where the nomenclature 1/0 denotes interfaces typically at the DS1 rate or greater with cross-connection typically at the DS0 rate. This same nomenclature, at the appropriate rate substitution, extends to the other types of DCSs specifically cited as 3/1 and 3/3. Types of DCSs that cross-connect Synchronous Transport Signal level 1 (STS-1s) or other Synchronous Optical Network (SONET) signals (e.g., STS-3) are also DCSs, although not denoted by this same type of nomenclature. DCS may provide the functionality of more than one of the aforementioned DCS types (e.g., DCS 3/3/1 which combines functionality of DCS 3/3 and DCS 3/1). For such DCSs, the requirements will be, at least, the aggregation of requirements on the "component" DCSs.
10.5.1.2	In locations where automated cross connection capability does not exist, DCS will be defined as the combination of the functionality provided by a Digital Signal Cross-Connect (DSX) or Light Guide Cross-Connect (LGX) patch panels and D4 channel banks or other DS0 and above multiplexing equipment used to provide the function of a manual cross connection.
10.5.1.3	Interconnection between a DSX or LGX, to a switch, another cross-connect, or other service platform device, is included as part of DCS.
10.6	DCS Technical Requirements
10.6.1	DCS shall provide completed end-to-end cross connection of the channels designated by HTI.
10.6.2	DCS shall perform facility grooming, multipoint bridging, one-way broadcast, two-way broadcast. Upon request by HTI pursuant to the Bona Fide Request Process, BellSouth will provide HTI with access to

integrated test functionality on the DCS subject to vendor development that will allow sharing of such functionality among multiple users and that will include necessary security features. Where technically available in BellSouth's DCS system and supported by 10.6.3 BellSouth's network management software, DCS shall provide multiplexing, format conversion, signaling conversion, or other functions. The end-to-end cross connection assignment shall be input to the 10.6.4 underlying device used to provide DCS from an operator at a terminal or via an intermediate system. The cross connection assignment shall remain in effect whether or not the circuit is in use. BellSouth shall continue to administer and maintain OCS, including 10.6.5 updates to the control software to current available releases. BellSouth shall provide various types of Digital Cross-Connect Systems 10.6.6 including: 10.6.6.1 DS0 cross-connects (typically termed DCS 1/0); DS1/VT1.5 (Virtual Tributaries at the 1.5Mbps rate) cross-connects 10.6.6.2 (typically termed DCS 3/1); DS3 cross-connects (typically termed DCS 3/3); 10.6.6.3 10.6.6.4 STS-1 cross-connects; and 10.6.6.5 Other technically feasible cross-connects designated by HTI. BellSouth shall provide an automated interface which will allow HTI to, in 10.6.7 real time, control the configuration and reconfiguration of channels on the DCS. 10.6.8 DELETED 10.6.9 DCS shall continuously monitor protected circuit packs and redundant common equipment. Where technically available in BellSouth's DCS System, DCS shall 10.6.10 automatically switch to a protection circuit pack on detection of a failure or degradation of normal operation. The underlying equipment used to provide DCS shall be equipped with a 10.6.11

redundant power supply or a battery back-up.

- 10.6.12 BellSouth shall make available to HTI spare facilities and equipment necessary for provisioning repairs, as it does for itself and for its own customers.
- 10.6.13 Effective as of the date this unbundled network element is offered,
 BellSouth will perform network management functions twenty-four (24)
 hours a day seven (7) days a week via electronic interfaces between HTI
 and BellSouth network management centers. At HTI's option, BellSouth
 shall provide HTI with real time performance monitoring and alarm data
 on the signals and the components of the underlying equipment used to
 provide DCS that actually impact HTI's services.
- Upon request by HTI pursuant to Bona Fide Request Process,
 BellSouth shall provide HTI with real time ability to initiate tests on
 integrated equipment used to test the signals and the underlying
 equipment used to provide DCS, as well as other integrated functionality
 for routine testing and fault isolation. Until such real time ability is
 available, BellSouth will perform such testing if requested by HTI.
- 10.6.15 Where technically available in BellSouth's DCS System and supported by BellSouth's network management software, DCS shall provide SONET to asynchronous gateway functionality (e.g., STS-1 to DS1 or STS-1 to DS3).
- 10.6.16 Where technically available in BellSouth's DCS System and supported by BellSouth's network management software, DCS shall perform optical to electrical conversion where the underlying equipment used to provide DCS contains optical interfaces or terminations (e.g., Optical Carrier level 3, i.e., OC-3, interfaces on a DCS 3/1).
- 10.6.17 Where technically available in BellSouth's DCS System and supported by BellSouth's network management software, DCS shall have SONET ring terminal functionality where the underlying equipment used to provide DCS acts as a terminal on a SONET ring.
- 10.6.18 Where technically available in BellSouth's DCS System and supported by BellSouth's network management software, DCS shall provide multipoint bridging of multiple channels to other DCSs. HTI may designate multipoint bridging to be one-way broadcast from a single master to multiple tributaries, or two-way broadcast between a single master and multiple tributaries.
- 10.6.19 Where technically available in BellSouth's DCS System and supported by BellSouth's network management software, DCS shall multiplex lower speed channels onto a higher speed interface and demultiplex higher speed channels onto lower speed interfaces as designated by HTI.

10.6.20	DELETED
10.7	DCS Interface Requirements
10.7.1	Where technically available in BellSouth's DCS System and supported by BellSouth's network management software, BellSouth shall provide physical interfaces on DS0, DS1, and VT1.5 channel cross-connect devices at the DS1 rate or higher. In all such cases, these interfaces shall be in compliance with applicable Bellcore, ANSI, ITU, and HTI standards.
10.7.2	Where technically available in BellSouth's DCS System and supported by BellSouth's network management software, BellSouth shall provide physical interfaces on DS3 channel cross-connect devices at the DS3 rate or higher. In all such cases, these interfaces shall be in compliance with applicable Bellcore, ANSI, ITU, and HTI standards.
10.7.3	Where technically available in BellSouth's DCS System and supported by BellSouth's network management software, BellSouth shall provide physical interfaces on STS-1 cross-connect devices at the OC-3 rate or higher. In all such cases, these interfaces shall be in compliance with applicable Bellcore, ANSI, ITU, and HTI standards.
10.7.4	Where technically available in BellSouth's DCS System and supported by BellSouth's network management software, Interfaces on all other cross-connect devices shall be in compliance with applicable Bellcore, ANSI, ITU, and HTI standards.
10.8	DCS shall, at a minimum, meet all the requirements set forth in the following technical references:
10.8.1	DELETED
10.8.2	DELETED
10.8.3	DELETED
10.8.4	DELETED
10.8.5	DELETED
10.8.6	DELETED
10.8.7	DELETED
10.8.8	ANSI T1.102-1993, American National Standard for Telecommunication - Digital Hierarchy - Electrical Interfaces;

	Attachment 2 Page 47
10.8.9	ANSI T1.102.01-199x, American National Standard for Telecommunications - Digital Hierarchy - VT1.5;
10.8.10	ANSI T1.105-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats;
10.8.11	ANSI T1.105.03-1994, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Jitter at Network Interfaces;
10.8.12	ANSI T1.105.03a-1995, American National Standard for Telecommunications - Synchronous Optical Network (SONET): Jitter at Network Interfaces - DS1 Supplement;
10.8.13	ANSI T1.105.06-199x, American National Standard for Telecommunications - Synchronous Optical Network (SONET) - Physical Layer Specifications;
10.8.14	ANSI T1.106-1988, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (Single Mode);
10.8.15	ANSI T1.107-1988, American National Standard for Telecommunications - Digital Hierarchy - Formats Specifications;
10.8.16	ANSI T1.107a-1990 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications (DS3 Format Applications);
10.8.17	ANSI T1.107b-1991 - American National Standard for Telecommunications - Digital Hierarchy - Supplement to Formats Specifications;
10.8.18	ANSI T1.117-1991, American National Standard for Telecommunications - Digital Hierarchy - Optical Interface Specifications (SONET) (Single Mode - Short Reach);
10.8.19	ANSI T1.403-1989, Carrier to Customer Installation, DS1 Metallic Interface Specification;
10.8.20	ANSI T1.404-1994, Network-to-Customer Installation - DS3 Metallic Interface Specification;
10.8.21	ITU Recommendation G.707, Network node interface for the synchronous digital hierarchy (SDH);

	Attachment 2 Page 48
10.8.22	ITU Recommendation G.704, Synchronous frame structures used at 1544, 6312, 2048, 8488 and 44736 kbit/s hierarchical levels;
10.8.23	FR-440 and TR-NWT-000499, Transport Systems Generic Requirements (TSGR): Common Requirements;
10.8.24	GR-820-CORE, Generic Transmission Surveillance: DS1 & DS3 Performance;
10.8.25	GR-253-CORE, Synchronous Optical Network Systems (SONET); Common Generic Criteria; and
10.8.26	TR-NWT-000776, Network Interface Description for ISDN Customer Access.
11.	Signaling Link Transport
11.1	Definition
	Signaling Link Transport is a set of two or four dedicated 56 Kbps. transmission paths between HTI-designated Signaling Points of Interconnection (SPOI) that provides appropriate physical diversity.
11.2	Technical Requirements
11.2.1	Signaling Link Transport shall consist of full duplex mode 56 kbps transmission paths.
11.2.2	Of the various options available, Signaling Link Transport shall perform in the following two ways:
11.2.2.1	As an "A-link" which is a connection between a switch or SCP and a home Signaling Transfer Point Switch (STPS) pair; and
11.2.2.2	As a "D-link" which is a connection between two STPS pairs in different company networks (e.g., between two STPS pairs for two Competitive Local Exchange Carriers (CLECs)).
11.2.3	Signaling Link Transport shall consist of two or more signaling link layer as follows:
11.2.3.1	An A-link layer shall consist of two links.
11.2.3.2	A D-link layer shall consist of four links.
11.2.4	A signaling link layer shall satisfy a performance objective such that:

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11.2.4.1	There shall be no more than two minutes down time per year for an A-link layer; and
11.2.4.2	There shall be negligible (less than 2 seconds) down time per year for a D-link layer.
11.2.5	A signaling link layer shall satisfy interoffice and intraoffice diversity of facilities and equipment, such that:
11.2.5.1	No single failure of facilities or equipment causes the failure of both link in an A-link layer (i.e., the links should be provided on a minimum of two separate physical paths end-to-end); and
11.2.5.2	No two concurrent failures of facilities or equipment shall cause the failure of all four links in a D-link layer (i.e., the links should be provided on a minimum of three separate physical paths end-to-end).
11.3	Interface Requirements
11.3.1	There shall be a DS1 (1.544 Mbps) interface at the HTI-designated

12. Signaling Transfer Points (STPs)

within the DS1 interface.

12.1 Definition - Signaling Transfer Points is a signaling network function that includes all of the capabilities provided by the signaling transfer point switches (STPSs) and their associated signaling links which enable the exchange of SS7 messages among and between switching elements, database elements and signaling transfer point switches. Figure 4 depicts Signaling Transfer Points.

SPOIs. Each 56 kbps transmission path shall appear as a DS0 channel

Attachment 2

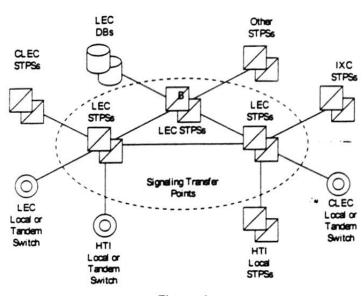


Figure 4

12.2 Technical Requirements

- 12.2.1 STPs shall provide access to Network Elements connected to BellSouth SS7 network. These include:
- 12.2.1.1 BellSouth Local Switching or Tandem Switching;
- 12.2.1.2 BellSouth Service Control Points/DataBases;
- 12.2.1.3 Third-party local or tandem switching
- 12.2.1.4 Third-party-provided STPSs.
- 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.
- 12.2.3 If a BellSouth tandem switch routes calling traffic, based on dialed or translated digits, on SS7 trunks between an HTI 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 the HTI local STPSs and the STPSs that provide connectivity with the third party local switch, even if the third party local switch is not directly connected to BellSouth STPSs.

- 12.2.4 STPs shall provide all functions of the MTP as defined in Bellcore ANSI Interconnection Requirements. This includes:
- 12.2.4.1 Signaling Data Link functions, as defined in Bellcore ANSI Interconnection Requirements,
- 12.2.4.2 Signaling Link functions, as defined in Bellcore ANSI Interconnection Requirements, and
- 12.2.4.3 Signaling Network Management functions, as defined in Bellcore ANSI Interconnection Requirements.
- STPs shall provide all functions of the SCCP necessary for Class 0 (basic connectionless) service, as defined in 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 BellSouth local or tandem switching system or data base, or is an HTI or third party local or tandem switching system directly connected to BellSouth SS7 network, STPs shall perform final GTT of messages to the destination and SCCP Subsystem Management of the destination. In all other cases, STPs shall perform intermediate GTT of messages to a gateway pair of STPSs in an SS7 network connected with BellSouth SS7 network, and shall not perform SCCP Subsystem Management of the destination.
- 12.2.6 STPs shall also provide the capability to route SCCP messages based on ISNI, as defined in Bellcore ANSI Interconnection Requirements, when this capability becomes available on BellSouth STPSs.
- 12.2.7 STPs shall provide on a non-discriminatory basis all functions of the OMAP commonly provided by STPSs, as specified in the reference in Section 10.4.5 of this Attachment. All OMAP functions will be on a "where available" basis and can include:
- 12.2.7.1 MTP Routing Verification Test (MRVT) and
- 12.2.7.2 SCCP Routing Verification Test (SRVT).

- In cases where the destination signaling point is a BellSouth local or tandem switching system or database, or is an HTI 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 STPSs 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 STPSs, and if mutually agreed upon by HTI and BellSouth.
- 12.2.9 STPs shall be equal to or better than the following performance requirements:
- 12.2.9.1 MTP Performance, as defined in Bellcore ANSI Interconnection Requirements and
- 12.2.9.2 SCCP Performance, as defined in Bellcore ANSI Interconnection Requirements.
- 12.2.10 SS7 Advanced Intelligent Network (AIN) Access
- 12.2.10.1 SS7 AIN Access shall provide the HTI SCP access to BellSouth local switch via interconnection of BellSouth SS7 and HTI SS7 Networks. BellSouth shall offer SS7 access through its STPs. BellSouth may utilize a mediation device on any part of its network, as necessary.
- 12.2.10.1.1 **DELETED**
- 12.2.10.2 SS7 AIN Access is the provisioning of AIN triggers in a BellSouth local switch and interconnection of the BellSouth SS7 network with the HTI SS7 network to exchange TCAP queries and responses with an HTI SCP. See Figure 5 below.

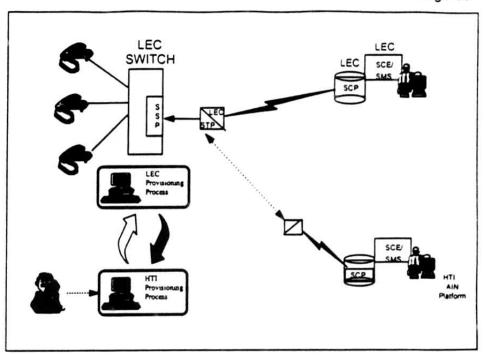


Figure 5

- 12.2.10.3 Physical interconnection between the BellSouth SS7 and the HTI SS7 networks shall be through facilities and protocols as specified in the SS7 Network Interconnection section of this Agreement.
- 12.2.10.4 Reliability of interconnection shall be consistent with requirements for diversity and survivability as specified in the SS7 Network Interconnection section of this Agreement.
- Delay associated with BellSouth local switch queries to the HTI STP shall be equal to or shorter than the delay associated with queries to BellSouth STP.
- 12.2.10.6 BellSouth's STP's shall maintain global title translations necessary to direct AIN queries for select global title address and translation type values to the HTI SS7 network.
- 12.2.10.7 BellSouth STPs shall route mutually agreeable AIN responses from the HTI SCP via SS7 network interconnect to the local switch designated in the Signaling Connection Control Part (SCCP) called party address.
- 12.2.10.8 Network management controls resulting from an overload in elements not supporting HTI customers shall not affect queries to HTI SCPs.

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12.2.10.9	Requirements for billing and recording information to track AIN query-response usage shall be consistent with Connectivity Billing and Recording requirements as specified in Attachment 6 (e.g., recorded message format and content, timeliness of feed, data format and transmission medium).
12.2.10.10	BellSouth shall provide to HTI all necessary testing resources and staff to perform SS7 certification testing prior to interconnection in accordance with the Cooperative Testing section of this Agreement.
12.2.10.11	When HTI selects SS7 AIN Access, BellSouth will provide access to provisioning processes to support interconnection of HTI's STPs.
12.2.10.12	When HTI selects SS7 AIN Access, BellSouth will provide interconnection of its SS7 network with BellSouth SS7 network for exchange of AIN TCAP messages as described in Section 12.2.10.13.2 below.
12.2.10.13	STPs shall offer SS7 AIN Access in accordance with the requirements of the following technical references, as implemented in BellSouth's STPs:
12.2.10.13.1	GR-2863-CORE, CCS Network Interface Specification Supporting Advanced Intelligent Network (AIN); and
12.2.10.13.2	GR-2902-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll-Free Service Using Advanced Intelligent Network (AIN).
12.3	Interface Requirements
12.3.1	BellSouth shall provide the following STPs options to connect HTl or HTl-designated local switching systems or STPSs to BellSouth SS7 network:
12.3.1.1	An A-link interface from HTI local switching systems; and,
12.3.1.2	A D-link interface from HTI local STPSs.
12.3.2	Each type of interface shall be provided by one or more sets (layers) of signaling links, as follows:
12.3.2.1	An A-link layer shall consist of two links, as depicted in Figure 6.

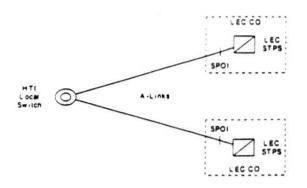


Figure 6. A-Link Interface

12.3.2.2 A D-link layer shall consist of four links, as depicted in Figure 7.

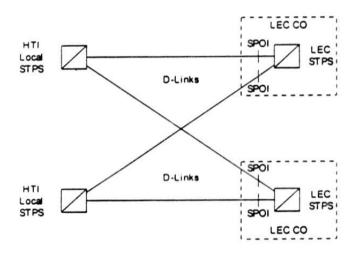


Figure 7. D-Link Interface

12.3.3 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 STPS 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 HTI local switching systems or STPSs with BellSouth STPSs as soon as these become approved ANSI standards and available capabilities of BellSouth STPSs. BellSouth and HTI will work jointly to establish mutually acceptable SPOIs.

12.3.4 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 D-links in a layer connecting to a BellSouth STPS. BellSouth and HTI will work jointly to establish mutually acceptable SPOIs. 12.3.5 BellSouth shall provide MTP and SCCP protocol interfaces that shall conform to all sections relevant to the MTP or SCCP in the following specifications: 12.3.5.1 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): 12.3.5.2 Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP). 12.3.6 Message Screening 12.3.6.1 BellSouth shall set message screening parameters so as to accept valid messages from HTI local or tandem switching systems destined to any signaling point within BellSouth's SS7 network where the HTI switching system has a legitimate signaling relation. 12.3.6.2 BellSouth shall set message screening parameters so as to pass valid messages from HTI local or tandem switching systems destined to any signaling point or network accessed through BellSouth's SS7 network where the HTI switching system has a legitimate signaling relation. 12.3.6.3 BellSouth shall set message screening parameters so as to accept and pass/send valid messages destined to and from HTI from any signaling point or network interconnected through BellSouth's SS7 network where the HTI SCP has a legitimate signaling relation. 12.4 STPs shall be equal to or better than all of the requirements for STPs set forth in the following technical references: ANSI T1.111-1992 American National Standard for Telecommunications 1241 Signaling System Number 7 (SS7) - Message Transfer Part (MTP); ANSI T1.111A-1994 American National Standard for 12.4.2 Telecommunications - Signaling System Number 7 (SS7) - Message

Transfer Part (MTP) Supplement:

- 12.4.3 ANSI T1.112-1992 American National Standard for Telecommunications Signaling System Number 7 (SS7) Signaling Connection Control Part (SCCP);
- 12.4.4 ANSI T1.115-1990 American National Standard for Telecommunications
 Signaling System Number 7 (SS7) Monitoring and Measurements for Networks:
- 12.4.5 ANSI T1.116-1990 American National Standard for Telecommunications
 Signaling System Number 7 (SS7) Operations, Maintenance and
 Administration Part (OMAP);
- 12.4.6 ANSI T1.118-1992 American National Standard for Telecommunications
 Signaling System Number 7 (SS7) Intermediate Signaling Network
 Identification (ISNI);
- 12.4.7 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
- 12.4.8 Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).

13. Service Control Points/DataBases

13.1 **Definition**

- 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, access to Service Creation Environment and Service Management System (SCE/SMS) application databases and Directory Assistance.
- 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.

13.2 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 HTI in accordance with the following requirements, except where such a requirement is superseded by specific requirements set forth in Subsections 13.3 through 13.7 of this Attachment:

- 13.2.1 BellSouth shall provide physical interconnection to SCPs through the SS7 network and protocols, as specified in Section 10 of this Attachment, with TCAP as the application layer protocol.
- 13.2.2 BellSouth shall provide physical interconnection to databases via industry standard interfaces and protocols (e.g. ISDN and X.25).
- 13.2.3 The reliability of interconnection options shall be consistent with requirements for diversity and survivability as specified in Section 10 of this Attachment (which applies to both SS7 and non-SS7 interfaces).

13.2.4 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.

- 13.2.5 BellSouth shall provide Database provisioning consistent with the provisioning requirements of this Agreement (e.g., data required, edits, acknowledgments, data format and transmission medium and notification of order completion).
- The operational interface provided by BellSouth shall complete
 Database transactions (i.e., add, modify, delete) for HTI customer
 records stored in BellSouth databases within 24 hours, or sooner where
 BellSouth provisions its own customer records within a shorter interval.
- 13.2.7 BellSouth shall provide Database maintenance consistent with the maintenance requirements as specified in this Agreement (e.g., notification of BellSouth Network Affecting Events, testing, dispatch schedule and measurement and exception reports).

- BellSouth shall provide billing and recording information to track database usage consistent with connectivity billing and recording requirements as specified in this Agreement (e.g., recorded message format and content, timeliness of feed, data format and transmission medium).
- 13.2.9 BellSouth shall provide SCPs/Databases in accordance with the physical security requirements specified in this Agreement.
- 13.2.10 BellSouth shall provide SCPs/Databases in accordance with the logical security requirements specified in this Agreement.

13.3 Local Number Portability Database

13.3.1 **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 the PNP database as directed by the FCC and the Florida Public Service Commission.

13.3.2 **DELETED**

13.3.3 **DELETED**

13.4 Line Information Database (LIDB):

This Subsection 13.4 defines and sets forth additional requirements for the Line Information Database. This Subsection 13.4 supplements the requirements of Subsection 13.2 and 13.8 of this Attachment. HTI acknowledges that BellSouth will store in its LIDB only records relating to service in the BellSouth region.

13.4.1 **Definition**

The Line Information Database (LIDB) is a transaction-oriented database accessible through Common Channel Signaling (CCS) networks. It contains records associated with customer Line Numbers and Special Billing Numbers (in accordance with the requirements in the technical reference in Section 13.8.5 of this Attachment). 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. The administrative system interface provides HTI Work Centers with an interface to LIDB for functions such as provisioning, auditing of data, access to LIDB measurements and reports.

13.4.2 Technical Requirements:

HTI LIBD technical requirements are set forth below. BellSouth also will offer to HTI any additional capabilities that are developed for LIBD during the life of this Agreement.

- Prior to the availability of a long-term solution for Local Number
 Portability, BellSouth shall enable HTI to store in BellSouth's LIDB any
 customer Line Number or Special Billing Number record, (in accordance
 with the technical reference in Section 13.8.5 of this Attachment)
 whether ported or not, for which the non-HTI dedicated NPA-NXX or
 RAO-0/1XX Group is supported by that LIDB, except for numbers ported
 from a third party local services provider.
- Prior to the availability of a long-term solution for Local Number
 Portability, BellSouth shall enable HTI to store in BellSouth's LIDB any
 customer Line Number or Special Billing Number (in accordance with the
 technical reference in Section 13.8.5) record, whether ported or not, and
 HTI dedicated NPA-NXX or RAO-0/1XX Group Records, except for
 numbers ported from a third party local services provider.
- Subsequent to the availability of a long-term solution for Local Number Portability, BellSouth shall enable HTI to store in BellSouth's LIDB any customer Line Number or Special Billing Number (in accordance with the technical reference in Section 13.8.5) record, whether ported or not, regardless of the number's dedicated NPA-NXX or RAO[NXX]-0/1XX., except for numbers ported from a third party local services provider.
- BellSouth shall perform the following LIDB functions (i.e., processing of the following query types as defined in the technical reference in Section 13.8.5 of this Attachment) for HTI's customer records in LIDB:
- 13.4.2.4.1 Billed Number Screening (provides information such as whether the Billed Number may accept Collect or Third Number Billing calls); and
- 13.4.2.4.2 Calling Card Validation: If HTI chooses to offer Tel Line Number TLN and/or Special Billing Number (SBN credit cards, calling card validation will be supported for the HTI customer data in the LIDB.
- 13.4.2.5 BellSouth shall process HTI's Customer records in LIDB at least at parity with BellSouth customer records, with respect to other LIDB functions

(as defined in the technical reference in Section 13.8.5 of this Attachment). BellSouth shall indicate to HTI what additional functions (if any) are performed by LIDB in the BellSouth network.

- 13.4.2.6 Within two (2) weeks after a request by HTI, BellSouth shall provide HTI with a list of the customer data items which HTI 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.
- 13.4.2.7 BellSouth shall provide LIDB systems for which operating deficiencies that would result in calls being blocked, shall not exceed 30 minutes per year.
- 13.4.2.8 BellSouth shall provide LIDB systems for which operating deficiencies that would not result in calls being blocked shall not exceed 12 hours per year.
- BellSouth shall provide LIDB systems for which the LIDB function shall be in overload (degraded performance in accordance with the technical reference in Section 13.8.5 of this Attachment) no more than 12 hours per year. Such deficiency period is in addition to the periods specified in Sections 13.4.2.7 and 13.4.2.8 above.
- BellSouth shall provide HTI with the capability to provision (e.g., to add, update, and delete) NPA-NXX and RAO-0/1XX Group Records, and Line Number and Special Billing Number Records, associated with HTI customers, directly into the BellSouth's LIDB provisioning process. The capability to provision (e.g., to add, update, and delete) NPA-NXX and RAO-01/1XX Group records, and Line Number and Special Billing Number Records, associated with HTI customers will be provided by BellSouth's DBAC. Direct access into BellSouth's LIDB process is not currently available. Once Direct access becomes available with the appropriate security measures, BellSouth will offer such access to HTI. In the interim, BellSouth will provide access by electronic mail, facsimile or password-protected phone call (applicable to Group level NPA-NXX and RAO-01/1XX, updated within the same day if notification to BellSouth is received by 1:00 PM central time).
- 13.4.2.11 BellSouth shall maintain customer data (for line numbers, card numbers, and for any other types of data maintained in LIDB) so that such customers shall not experience any interruption of service due to the lack of such maintenance of customer data. In the event that end user customers change their local services provider, BellSouth will use its

best efforts to minimize service interruption in those situations where BellSouth has control over additions and deletions to the database as the LIDB provider.

- All additions, updates and deletions of HTI data to the LIDB shall be solely at the direction of HTI. Such direction from HTI will not be required where the addition, update or deletion is necessary to perform standard fraud control measures (e.g., calling card auto-deactivation).
- 13.4.2.13 BellSouth shall provide priority updates to LIDB for HTI data upon HTI'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.
- BellSouth shall provide HTI with the capability to directly obtain, through an electronic interface, reports of all HTI data in LIDB. Such capability will be through the data migration format (FCIF Interface) that can be used to electronically obtain reports of HTI data in LIDB.
- BellSouth shall provide LIDB systems such that no more than 0.01% of HTI customer records will be missing from LIDB, as measured by HTI audits. BellSouth will audit HTI records in LIDB against DBAS to identify record mis-matches and provide this data to a designated HTI contact person to resolve the status of the records and BellSouth will update system appropriately. BellSouth will refer record of mis-matches to HTI within one business day of audit. Once reconciled records are received back from HTI, 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 HTI to negotiate a time frame for the updates, not to exceed three business days.
- 13.4.2.16 BellSouth shall perform backup and recovery of all of HTI'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.
- 13.4.2.17 BellSouth shall provide to HTI access to LIDB measurements and reports at least at parity with the capability that BellSouth has for its own customer records and that BellSouth provides to any other party. Electronic access shall be offered to HTI when it becomes available. Currently, BellSouth provides the following information from the Billing Measurements System summarized by Data Owner/Query Originator:

Calling Card Queries
Billed Number Screening Queries
Calling Card Successful
Calling Card Denied
Calling Card CCAN Service Denied
Calling Card Pin Match Field
Calling Card Record Not Found
Billed Number Screening Successful
Billed Number Screening Not Found
Group Not Found
BNS/C Processing Indicator Not Enabled
Group Status/Nonparticipating

As additional LIDB measurements and reports become available, such measurements and reports also will be provided to HTI.

- 13.4.2.18 BellSouth shall provide HTI with LIDB reports of data which are missing or contain errors, as well as any misroute errors, within a reason time period as negotiated between HTI and BellSouth.
- BellSouth shall prevent any access to or use of HTI 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 HTI in writing.
- BellSouth shall provide HTI 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, (in accordance with the technical reference in Section 13.8.5 of this Attachment) for Customer Data that is part of an NPA-NXX or RAO-0/1XX wholly or partially owned by HTI at least at parity with BellSouth Customer Data. BellSouth shall obtain from HTI the screening information associated with LIDB Data Screening of HTI 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 HTI under the Bona Fide Request process identified in Section 1.1 of this Agreement.

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13.4 2 21 BellSouth shall accept queries to LIDB associated with HTI customer records, and shall return responses in accordance with the requirements of Section 13.8.5. BellSouth shall provide mean processing time at the LIDB within 0.50 13.4.2.22 seconds under normal conditions as defined in the technical reference in Section 13.8.5 of this Attachment. BellSouth shall provide processing time at the LIDB within 1 second for 13 4 2 23 99% of all messages under normal conditions as defined in the technical reference in Section 13.8.5 of this Attachment. BellSouth shall provide 99.9 % of all LIDB queries in a round trip within 2 13.4.2.24 seconds as defined in the technical reference in Section 13.8.5. BellSouth shall provide data in LIDB replies with no more than 2% 13.4.2.25 unexpected data values. Per BellCORE document SR334, because the majority of the error (i.e., fraud attempts, customer or operator misdialing, and CPE malfunctions) are beyond the LIDB owner. Unexpected Data Value - PIN Mismatch should not be considered measurement of BellSouth LIDB quality. However, should this value exceed 2% HTI and BellSouth will jointly agree if and when root cause analysis is necessary. Interface Requirements 13.4.3 BellSouth shall offer LIDB in accordance with the requirements of this subsection 13.4.3. The interface to LIDB shall be in accordance with the technical reference 13.4.3.1 in Section 13.8.3 of this Attachment. The CCS interface to LIDB shall be the standard interface described in 13.4.3.2 Section 13.8.3 of this Attachment. The LIDB Data Base interpretation of the ANSI-TCAP messages shall 13.4.3.3 comply with the technical reference in Section 13.8.4 of this Attachment. Global Title Translation shall be maintained in the signaling network in order to support signaling network routing to the LIDB. Toll Free Number Database 13.5 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. This Subsection 13.5

supplements the requirements of Subsections 13.2 and 31.8 of this

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Agreement. BellSouth shall provide the Toll Free Number Database in accordance with the following:

13.5.1 Technical Requirements

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

- 13.5.1.2 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.
- The SCP shall also provide, at HTl's option, such additional feature as described in SR-TSV-002275 (BOC Notes on BellSouth Networks, SR-TSV-002275, Issue 2, (Bellcore, April 1994)) as are available to BellSouth. These may include but are not limited to:
- 13.5.1.3.1 Network Management;
- 13.5.1.3.2 Customer Sample Collection; and
- 13.5.1.3.3 Service Maintenance

13.5.2 Interface Requirements

The signaling interface between the HTI or other local switch and the Toll-Free Number database shall use the TCAP protocol as specified in the technical reference in Section 13.8.1 of this Attachment, together with the signaling network interface as specified in the technical reference in Sections 13.8.2 and 13.8.6 of this Agreement.

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

The ALI/DMS Database contains customer information (including name, address, telephone information, and sometimes special information from the local service provider or customer) 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. This Subsection 13.6 supplements the requirements of Subsections 13.8.2 and 13.8.6 of this Attachment. BellSouth shall provide the Emergency Services Database in accordance with the following:

13.6.1 Technical Requirements

- BellSouth shall offer HTI a data link to the ALI/DMS database or permit HTI to provide its own data link to the ALI/DMS database. BellSouth shall provide error reports from the ALI/DMS data base to HTI immediately after HTI inputs information into the ALI/DMS data base. Alternately, HTI may utilize BellSouth, to enter customer information into the data base on a demand basis, and validate customer information on a demand basis.
- 13.6.1.2 The ALI/DMS database shall contain the following customer information:

- 13.6.1.2.1 Name;
- 13.6.1.2.2 Address:
- 13.6.1.2.3 Telephone number; and
- 13.6.1.2.4 Other information as appropriate (e.g., whether a customer is blind or deaf or has another disability).
- When the BellSouth is responsible for administering the ALI/DMS database in its entirety, ported number NXXs entries for the ported numbers should be maintained unless HTI requests otherwise and shall be updated if HTI requests, provided HTI supplies BellSouth with the updates.
- When Remote Call Forwarding (RCF) is used to provide number portability to the local customer 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.
- 13.6.1.5 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.

13.6.2 Interface Requirements

The interface between the E911 Switch or Tandem and the ALI/DMS database for HTI customers shall meet industry standards.

13.7 Directory Assistance Database

BellSouth shall make its directory assistance database available to HTI in order to allow HTI to provide its customers with the same directory assistance services BellSouth provides to BellSouth customers. BellSouth shall provide HTI 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 HTI and BellSouth of customer address and number changes. Directory Assistance Services must provide both the ported and ALEC telephone numbers to the extent available in BellSouth's database assigned to a customer. Privacy indicators must be properly identified to assure the non-published numbers are accurately identified.

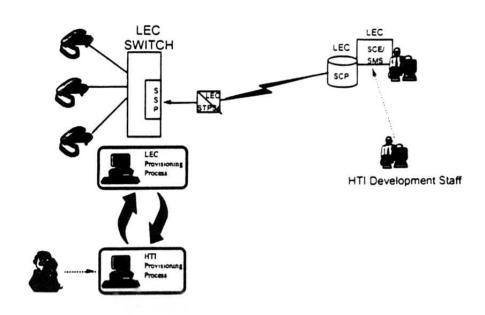


Figure 8

- 13.9.2 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 HTI. Scheduling procedures shall provide HTI equivalent priority to these resources
- BellSouth's SCE/SMS AIN Access shall allow for multi-user access with proper source code management and other logical security functions as specified in the Security section of this Agreement.
- BellSouth SCP shall partition and protect HTI service logic and data from unauthorized access, execution or other types of compromise.
- 13.9.5 When HTI selects SCE/SMS AIN Access, BellSouth shall provide training, documentation, and technical support to enable HTI 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.
- 13.9.6 When HTI selects SCE/SMS AIN Access, BellSouth shall provide for a secure, controlled access environment in association with its internal use of AIN components. HTI access will be provided via remote data connection (e.g., dial-in, ISDN).

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13.9.7 When HTI selects SCE/SMS AIN Access, BellSouth shall allow HTI to download data forms and/or tables to BellSouth SCP via BellSouth SMS without intervention from BellSouth (e.g., service customization and customer subscription).

13.9.8 **DELETED**

14. Tandem Switching

14.1 Definition

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

14.2 Technical Requirements

- 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:
- 14.2.1.1 Tandem Switching shall provide signaling to establish a tandem connection;
- 14.2.1.2 Tandem Switching will provide screening as jointly agreed to by HTI and BellSouth;

14.2.1.3 **DELETED**

14.2.1.4 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

14.2.1.5 **DELETED**

- 14.2.1.6 Tandem Switching shall provide access to Toll Free number portability database as designated by HTI;
- 14.2.1.7 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));

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14.2.1.8	Tandem Switching shall provide connectivity to PSAPs where 911 solutions are deployed and the tandem is used for 911; and
14.2.1.9	Tandem Switching shall provide connectivity to transit traffic to and from other carriers.
14.2.2	Tandem Switching shall accept connections (including the necessary signaling and trunking interconnections) between end offices, other tandems, IECs, ICOs, CAPs and CLEC switches.
14.2.3	Tandem Switching shall provide local tandeming functionality between two end offices including two offices belonging to different CLEC's (e.g., between an HTI end office and the end office of another CLEC).
14.2.4	Tandem Switching shall preserve CLASS/LASS features and Caller ID as traffic is processed. Additional signaling information and requirements are provided in Section 10 of this Attachment.
14.2.5	Tandem Switching shall record billable events and send them to the area billing centers designated by HTI. Tandem Switching will provide recording of all billable events as jointly agreed to by HTI and BellSouth.
14.2.6	Upon a reasonable request from HTI, 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 HTI.
14.2.7	BellSouth shall maintain HTI's trunks and interconnections associated with Tandem Switching at least at parity to its own trunks and interconnections.
14.2.8	DELETED
14.2.9	BellSouth shall control congestion points and network abnormalities. All traffic will be restricted in a non discriminatory manner.
14.2.10	Tandem Switching shall route calls to BellSouth or HTI endpoints or platforms (e.g., operator services and PSAPs) on a per call basis as designated by HTI, where such routing is not available from the originating end office switch, to the extent such Tandem Switch has such capability. Detailed primary and overflow routing plans for all interfaces available within BellSouth switching network shall be mutually agreed to by HTI and BellSouth. Such plans shall meet HTI requirements for routing calls through the local network.

Tandem Switching shall process originating toll-free traffic received from 14.2.11 an HTI local switch. In support of AIN triggers and features, Tandem Switching shall provide 14.2.12 SSP capabilities when these capabilities are not available from the Local Switching Network Element, to the extent such Tandem Switch has such capability. 14.2.13 DELETED Interface Requirements 14.3 Tandem Switching shall provide interconnection to the E911 PSAP 14.3.1 where the underlying Tandem is acting as the E911 Tandem. Tandem Switching shall interconnect, with direct trunks, to all carriers 14.3.2 with which BellSouth interconnects. BellSouth shall provide all signaling necessary to provide Tandem 14.3.3 Switching with no loss of feature functionality. Tandem Switching shall interconnect with HTI's switch, using two-way 14.3.4 trunks, for traffic that is transiting via BellSouth network to interLATA or intraLATA carriers. At HTI's request, Tandem Switching shall record and keep records of traffic for billing. Tandem Switching shall provide an alternate final routing pattern for HTI 14.3.5 traffic overflowing from direct end office high usage trunk groups. 14.3.6 DELETED Tandem Switching shall meet or exceed (i.e., be more favorable to HTI) 14.4 each of the requirements for Tandem Switching set forth in the following technical references: Bell Communications Research TR-TSY-000540 Issue 2R2, Tandem 14.4.1 Supplement, 6/1/90; GR-905-CORE covering CCSNIS; 14.4.2 GR-1429-CORE for call management features; and 14.4.3 GR-2863-CORE and GR-2902-CORE covering CCS AIN interconnection DARK FIBER - DELETED 15. 15.1.1 DELETED

15.2	Requirements - DELETED
15.2.1	DELETED
15.2.2	DELETED
15.2.3	DELETED
15.2.4	DELETED
15.2.5	DELETED
15.3	DELETED
15.3.1	DELETED
15.3.2	DELETED

16. Additional Requirements

This Section 16 of Attachment 2 sets forth the additional requirements for unbundled Network Elements which BellSouth agrees to offer to HTI under this Agreement.

16.1 Cooperative Testing

16.1.1 **Definition**

Cooperative Testing means that BellSouth shall cooperate with HTI upon request or as needed to (1) ensure that the Network Elements and Ancillary Functions and additional requirements being provided to HTI by BellSouth are in compliance with the requirements of this Agreement, and (2) test the overall functionality of various Network Elements and Ancillary Functions provided by BellSouth to HTI in combination with each other or in combination with other equipment and facilities provided by HTI or third parties, and (3) ensure that all operational interfaces and processes are in place and functioning properly and efficiently for the provisioning and maintenance of Network Elements and Ancillary Functions and so that all appropriate billing data can be provided to HTI.

16.1.2 Requirements

BellSouth shall provide performance equal to or better than all of the requirements set forth in this Section 16.1.2. In addition, within ninety (90) days of the Effective Date of this Agreement, HTI and BellSouth will agree upon a Cooperative Testing process which will

- Dedicated Transport and Loop Feeder may experience alarm conditions due to in-progress tests. BellSouth shall not remove such facilities from service without obtaining HTI's prior approval.
- Tests or maintenance procedures on Network Elements or Ancillary Functions or on the underlying equipment that is then providing a Network Element or Ancillary Function, that may cause a service interruption or degradation if such tests and procedures are at a time that is mutually acceptable to HTI and BellSouth.
- 16.1.2.10 A single point of contact to HTI that is available 7 days per week, 24 hours per day for trouble status, sectionalization, resolution, escalation, and closure. Such staff shall be adequately skilled to allow expeditious problem resolution.
- 16.1.2.11 Electronic access to 105 responders, 100-type test lines, or 102-type test lines associated with any circuits under test.
- BellSouth participation in Cooperative Testing with HTI upon HTI's request to test any operational interface or process used to provide Network Elements, Ancillary Functions or Services to HTI.
- 16.1.2.13 Completing Cooperative Testing expeditiously.
- 16.1.2.14 Enhancements to BellSouth's provisioning processes to deliver Network Elements and Ancillary Functions and any Additional Requirements to HTI in shorter intervals than during subsequent normal service periods.
- BellSouth participation in Cooperative Testing requested by HTI whenever it is deemed necessary by HTI to insure service performance, reliability and customer serviceability.
- 16.1.2.16 Procedures to cover HTI acceptance or rejection of a Network Element ordered by HTI if upon completion of cooperative acceptance testing, the tested Network Element does not meet the requirements stated herein.

16.2 **Performance**

16.2.1 **Scope:**

This section addresses performance requirements for Network Elements and Ancillary Functions to provide local service. It includes requirements for the reliability and availability of Network Elements and Ancillary Functions, and quality parameters such as transmission quality (analog and digital), and speed (or delay). In addition, an overview of service performance requirements is given.

- 16.2.1.1 The General Performance Requirements in this section apply to all aspects of Network Elements and Ancillary Functions. Additional requirements are given in this performance section and in the individual Network Elements sections.
- 16.2.2 BellSouth shall work cooperatively with HTI to determine appropriate performance allocations across Network Elements.
- BellSouth shall comply with the following technical documents to the extent that they are consistent with the greater of BellSouth's actual performance or applicable industry standards. If HTI requests performance that exceeds either the industry standards or the actual performance that BellSouth provides to itself, then HTI shall request such additional requirements through the Bona Fide Request process set forth in Section 1.1 of the General Terms and Conditions of this Agreement.

16.2.3.1 Bell Communications Research, Inc. Documents

- 16.2.3.1.1 FR-64, LATA Switching Systems Generic Requirements (LSSGR). This document contains 117 Technical References and Generic Requirements. Sections provide the requirements for local switching systems (also referred to as end offices) that serve customers' lines. Some modules of the LSSGR are also referenced separately in this document.
- 16.2.3.1.2 TR-NWT-000499, Issue 5, Rev 1, April 1992, Transport Systems Generic Requirements (TSGR): Common Requirements.
- 16.2.3.1.3 TR-NWT-000418, Issue 2, December 1992, Generic Reliability Assurance Requirements For Fiber Optic Transport Systems.
- 16.2.3.1.4 TR-NWT-000057, Issue 2, January 1993, Functional Criteria for Digital Loop Carriers Systems.
- 16.2.3.1.5 TR-NWT-000507, Issue 5, December 1993, LSSGR Transmission, Section 7.
- 16.2.3.1.6 GR-303-CORE, Issue 1, September 1995, Integrated Digital Loop Carrier System Generic Requirements, Objectives, and Interface.
- 16.2.3.1.7 GR-334-CORE, Issue 1, June 1994, Switched Access Service: Transmission Parameter Limits and Interface Combinations.
- 16.2.3.1.8 TR-NWT-000335, Issue 3, May 1993, Voice Grade Special Access Services Transmission Parameter Limits and Interface Combinations.

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16.2.3.1.9	TR-TSY-000529, Issue 2, July 1987, Public Safety - LSSGR.
16.2.3.1.10	GR-1158-CORE, Issue 2, October 1995, OSSGR Section 22.3: Line Information Database.
16.2.3.1.11	TR-TSY-000511, Issue 2, July 1987, Service Standards, a Module (Section 11) of LATA Switching Systems Generic Requirements (LSSGR, FR-NWT-000064).
16.2.3.1.12	TR-NWT-000393, January 1991, Generic Requirements for ISDN Basic Access Digital Subscriber Lines.
16.2.3.1.13	TR-NWT-000909, December 1991, Generic Requirements and Objectives for Fiber In The Loop Systems.
16.2.3.1.14	TR-NWT-000505, Issue 3, May 1991, LSSGR Section 5, Call Processing.
16.2.3.1.15	FR-NWT-000271, 1993, Operator Services Systems Generic Requirements (OSSGR).
16.2.3.1.16	TR-NWT-001156, Issue 2, July 1993, OSSGR Operator Services Systems Generic Requirements, Section 21, Operator Subsystem.
16.2.3.1.17	SR-TSY-001171, Issue 1, January 1989, Methods and Procedures for System Reliability Analysis.
16.2.3.1.18	Bellcore Telecommunications Transmission Engineering, 3rd Ed, 1990.
16.2.3.2	ANSI Standards
16.2.3.2.1	ANSI T1.512-1994, Network Performance - Point-to-Point Voice-Grade Special Access Network Voiceband Data Transmission Objectives.
16.2.3.2.2	ANSI T1.506-1990, Network Performance - Transmission Specifications for Switched Exchange Access Network.
16.2.3.2.3	ANSI T1.508-1992, Telecommunications - Network Performance - Loss Plan for Evolving Digital Networks. Also supplement T1.508a-1993.
16.2.3.2.4	ANSI T1.101-1994, Digital Synchronization Network Plan.
16.2.3.3	TIA/EIA Standards
16.2.3.3.1	Requirements not specifically addressed here shall be found in the documents listed in Electronic Industries

	Association/Telecommunications Industries Association Standards and Engineering Publications.
16.2.3.3.2	TIA/EIA TSB-37A, Telephone Network Transmission Model for Evaluating Modem Performance.
16.2.3.3.3	TIA/EIA TSB-38, Test Procedure for Evaluation of 2-wire 4 kHz Voiceband Duplex Modems.
16.2.3.4	IEEE Standards
16.2.3.4.1	IEEE Standard 743-1984, IEEE Standard Methods and Equipment for Measuring Transmission Characteristics of Analog Voice Frequency Circuits.
16.2.3.4.2	ANSI/IEEE Standard 820-1984, Telephone Loop Performance Characteristics.
16.2.3.5	HTI Standards
16.2.3.5.1	Outside Plant Engineering Handbook, August 1994.
16.2.3.5.2	HTI Pub. 60220, Issue 1, April 1991, 5ESS OSPS Interface Technical Specification for Domestic Toll And Assistance Applications.
16.2.3.5.3	DELETED
16.2.3.5.4	DELETED
16.2.3.5.5	DELETED
16.2.3.5.6	DELETED
16.2.3.5.7	DELETED

16.2.3.5.8	DELETED
16.2.3.5.9	DELETED
16.2.3.5.10	DELETED
16.2.3.5.11	DELETED
16.2.4	Services and Capabilities
16.2.4.1	All Network Elements shall provide performance sufficient, in combination with other Network Elements, to provide the following applications in accordance with the requirements of this document:
16.2.4.1.1	Voice services.
16.2.4.1.2	Voice-band data modem connections up to 9.6 kbps and up to and including 28.8 kbps V.34 when available.
16.2.4.1.3	FAX transmissions up to and including 9.6 kbps group 3 when available.
16.2.4.1.4	CLASS/LASS features.
16.2.4.1.5	Operator Systems.
16.2.4.2	Where available, the following capabilities shall be provided as applicable:
16.2.4.2.1	ISDN BRI
16.2.4.2.2	ISDN PRI
16.2.4.2.3	Switched Digital Data
16.2.4.2.4	Non-Switched Digital Data
16.2.4.2.5	Types of Video applications
16.2.4.2.6	Coin Services
16.2.4.2.7	Frame Relay and ATM

16.2.4.2.8 Private Line Services

16.2.5 Specific Performance Requirements

BellSouth shall comply with the following performance requirements to the extent that they are consistent with the greater of BellSouth's actual performance or applicable industry standards. If HTI requests performance requirements that exceed either the industry standards or the actual performance that BellSouth provides to itself, then HTI shall request such performance through the Bona Fide Request process set forth in Section 1.1 of the General Terms and Conditions of this Agreement.

- BellSouth shall provide performance equal to or better than all of the requirements set forth in this Section. Unless noted otherwise, requirements and objectives are given in terms of specific limits. This means that all tests (acceptance and ongoing performance) shall meet the limit(s) to satisfy the requirement.
- Performance Allocation Transmission path impairments may be classified as either analog or digital, and will depend on the nature of the signal transmitted across the Network Element. Analog impairments are introduced on any analog portion of the loop, typically between the NID portion of Loop Distribution and the analog to digital (A/D) conversion, and are usually correlated with the length of the physical plant. Digital impairments are introduced by A/D conversion and by interfaces between digital Network Elements. In addition, noise can be introduced by either analog transmission or the A/D conversion.

16.2.5.3 Loop Combination Architecture Constraints

The following constraints will limit not only the variety of Loop Combination architectures that may be considered, but also the architectures BellSouth may consider to deliver any Ancillary Function or Network Element. These constraints apply to the entire path between the NID portion of Loop Distribution and BellSouth switch. Any exceptions to these restrictions shall be specifically requested or approved by HTI in writing.

16.2.5.3.1.1 **DELETED**

- 16.2.5.3.1.2 No more than 1, 2-to-4-wire hybrid.
- 16.2.5.3.1.3 No voice compression.
- 16.2.5.3.1.4 No echo cancelers or suppressers.

- 16.2.5.3.1.5 One digital loss pad per PBX.
- 16.2.5.3.1.6 No digital gain.
- 16.2.5.3.1.7 No additional equipment that might significantly increase intermodulation distortion.

16.2.5.4 Transmission Impairments

Analog Impairments Analog impairments are those introduced on portions of the end-to-end circuit on which communications signals are transmitted in analog format. These portions of the transmission path would typically be between NID and an A/D conversion, most commonly on the metallic loop. The performance on the analog portion of a circuit is typically inversely proportional to the length of that circuit.

16.2.5.4.1.1 Loss

- 16.2.5.4.1.1.1 Electrical loss is measured using a 1004 Hz 0.0dB one Milliwatt 900 ohm test tone.
- 16.2.5.4.1.1.2 Off-hook electrical loss between the NID and the switch shall be no more than 8.0 dB for any line. On-hook electrical loss between the NID and the switch shall be no more than 13.9 dB above the off-hook electrical loss for any line, per BellCore Technical Reference No. 57.

16.2.5.4.1.2 Idle Channel Circuit Noise

- 16.2.5.4.1.2.1 Idle channel circuit noise (C-message) is added by analog facilities, by the A/D conversion of signals, by digital processing equipment (e.g. echo cancelers, digital loss pads), robbed bit signaling, and errors on digital facilities.
- 16.2.5.4.1.2.2 Idle channel circuit noise shall be less than or equal to 18 dBrnC.

16.2.5.4.1.3 Talker Echo

- 16.2.5.4.1.3.1 The primary source of echo is improper impedance-matching at the 2-to-4 wire hybrid in BellSouth network. The impact on customer perception is a function of both echo return loss and delay.
- 16.2.5.4.1.3.2 Echo Return Loss (ERL) shall be greater than 26dB to a standard termination (900 ohms, 2.16 μFd), and greater than 14 dB to a telephone set off-hook. Singing Return Loss (SRL) shall be greater than 21dB to a standard termination, and greater than 11 dB to a telephone set off-hook.

16.2.5.4.1.4 Listener Echo

Listener echo is a double reflection of a transmitted signal at two different impedance mismatches in the end-to-end connection. While in extreme cases it can degrade voice transmission performance, listener echo is primarily an issue for voiceband data. The requirements on Talker Echo shall apply to Listener Echo.

16.2.5.4.1.5 Propagation and Processing Delay

- 16.2.5.4.1.5.1 Propagation delay is the delay involved in transmitting information from one location to another. It is caused by processing delays of equipment in the network and delays associated with traveling across transmission facilities.
- 16.2.5.4.1.5.2 BellSouth shall cooperate with HTI to limit total service propagation and processing delay to levels at parity with that within the BellSouth local network.

16.2.5.4.1.6 Signal-to-Noise Ratio

- 16.2.5.4.1.6.1 The Signal-to-Noise Ratio (S/N) is a critical parameter in determining voiceband data performance. It is typically measured with a 1004 Hz tone.
- 16.2.5.4.1.6.2 BellSouth must provide on the Loop Combination a signal-to-noise ratio of at least 37 dB between the NID and the end office.

16.2.5.4.1.7 C-Notched Noise

The requirements for Signal-to-Noise Ration shall apply to C-Notched Noise.

16.2.5.4.1.8 Attenuation Distortion

- 16.2.5.4.1.8.1 Attenuation distortion, also known as frequency distortion or gain slope, measures the variations in loss at different frequencies across the voice frequency spectrum (200 Hz 3400 Hz). It is measured by subtracting the loss at 1004 Hz from the loss at the frequency of interest.
- 16.2.5.4.1.8.2 Attenuation distortion from the NID to the switch shall be within the range ± 0.5 dB for frequencies between 304 and 3004 Hz; from the switch to NID attenuation distortion shall be within the range ± 0.5 dB for frequencies between 204 Hz and 3004 Hz. In addition, attenuation distortion shall remain within the range +1dB/-3dB for frequencies between 200 Hz and 3500 Hz.

16.2.5.4.1.9 Envelope Delay Distortion

- 16.2.5.4.1.9.1 Envelope Delay Distortion (EDD) measures the difference in transit time of signals at different frequencies. EDD is measured relative to the transit time of a 1704 Hz. tone, and is given in microseconds. EDD is used as an approximation of the group delay of the channel.
- 16.2.5.4.1.9.2 EDD shall be: 1704 Hz to 604 Hz -- ≤ 350 μsec.; 1704 Hz to 2804 Hz -- ≤ 195 μsec.; 1704 Hz to 204 Hz -- ≤ 580 μsec.; 1704 Hz to 3404 Hz -- ≤ 400 μsec.

16.2.5.4.1.10 Phase Jitter

- 16.2.5.4.1.10.1 Phase jitter measures the unwanted angular modulation of a signal. It is caused by noise or the actual modulation of the signal by another unwanted signal. It displaces the zero crossings of a signal. It is measured in terms of peak-to-peak deviations of a 1004 Hz. tone from its nominal zero crossings, and in a particular frequency band (20-300 Hz and either 4-300 Hz or 2-300 Hz). Phase jitter impacts voiceband data performance and can make modems more susceptible to other impairments, including noise.
- 16.2.5.4.1.10.2 From the NID to the interexchange carrier point of termination, phase jitter shall be <1.5 ° point-to-point in the 20-300 Hz band, and <1.8° point-to-point in the 4-300 Hz. band.

16.2.5.4.1.11 Amplitude Jitter

- 16.2.5.4.1.11.1 Amplitude jitter is any deviation of the peak value of a 1004 Hz signal from its nominal value. Excessive amounts can impair voiceband data performance. It is primarily caused by noise but can also be caused by phase jitter, gain hits, or single frequency interference.
- 16.2.5.4.1.11.2 In NID-interexchange carrier point of termination, ≤2.5% of amplitude jitter is permitted in the 20-300 Hz band and ≤2.9% in the 4-300 Hz band.

16.2.5.4.1.12 Intermodulation Distortion

16.2.5.4.1.12.1 Intermodulation distortion (IMD) measures non-linear distortions of a signal. It compares the power of harmonic tones to the power of the transmitted tones. It is measured for both the 2nd and 3rd harmonics of the transmitted tones. IMD is caused by compression or clipping and can impair voiceband data performance.

16.2.5.4.1.12.2 Both 2nd and 3rd order IMD between the NID and end office must be ≥ 52dB.

16.2.5.4.1.13 Impulse Noise

- 16.2.5.4.1.13.1 Impulse noise is a sudden and large increase in noise on a channel for a short duration of time. Impulse noise is measured as a count of the number of times a noise threshold is exceeded during a given time period (typically 5 or 15 minutes). It is caused by protection switching, maintenance activities, electromechanical switching systems, digital transmission errors, and line coding mismatches. Impulse noise sounds like clicking noises or static on voice connections. Impulse noise impairs voiceband data performance.
- 16.2.5.4.1.13.2 The NID to interexchange carrier point of termination portions of connections shall introduce no impulse noise events within 6dB of the received signal power on 93% of all 15 minute connections. In addition, there shall be no more than 1 impulse noise event within 6 dB of the received signal power during any 30-minute period.

16.2.5.4.1.14 Phase Hits

- 16.2.5.4.1.14.1 Phase hits are a sudden change in the phase of a signal lasting at least 4 msec. Phase hits are measured using a threshold which indicates how much the phase of the signal has changed with respect to its nominal phase. Phase hits are caused by protection switching and slips or other synchronization errors. Phase hits can impair voiceband data performance.
- 16.2.5.4.1.14.2 Between the NID and interexchange carrier point of termination, 99.75% of all 15-minute connections shall have no phase hits exceeding 10°. In addition, there shall be no more than 1 phase hit exceeding 10° in any 30-minute period.

16.2.5.4.1.15 Gain Hits

- 16.2.5.4.1.15.1 Gain hits are sudden changes in the level of a signal that last at least 4 msec. Gain hits are measured against a threshold of typically 2-5 dB relative to the signal's nominal level. Gain hits are usually caused by protection switches and can impair voiceband data performance.
- 16.2.5.4.1.15.2 Between the NID and the interexchange carrier point of termination, 99.5% of all 15-minute connections shall have no gain hits exceeding 3 dB. In addition, there shall be no more than 1 gain hit exceeding 3 dB in any 30-minute period.

16.2.5.4.1.16 **Dropouts**

- 16.2.5.4.1.16.1 Dropouts are drops in the level of a signal of 12 dB or more for at least 4 msec. They are caused by protection switching events, radio fading, and conditions causing digital carrier systems to lose frame. Dropouts are critical for voiceband data performance but, if severe enough, will also affect voice quality.
- 16.2.5.4.1.16.2 Between the NID and the interexchange carrier point of termination, 99.9% of all 15-minute connections shall have no dropouts and in addition, no connection shall suffer more than 1 dropout in any 60minute period.

16.2.5.4.1.17 Frequency Shift

- 16.2.5.4.1.17.1 Frequency shift measures any frequency changes that occur when a signal is transmitted across a channel. It is typical measured using a 1004 Hz tone. Frequency shift has very little impact on voice or voiceband data performance; however, round-trip frequency shifts can affect the ability of echo cancelers to remain converged.
- 16.2.5.4.1.17.2 No more than 0.2 Hz frequency shift shall be on any connection. In addition, 99.5% of all calls shall have frequency shift < 0.1 Hz.

16.2.5.4.1.18 Crosstalk

- 16.2.5.4.1.18.1 Crosstalk is the presence of signals from other telephone connections on a circuit. Crosstalk can be either intelligible, when speech from other connections can be heard and understood, or unintelligible. Crosstalk is caused by inter-channel interference on the transmission system. Crosstalk is difficult to measure: it requires correlating signals on different circuits or using human listeners to identify its presence. Trouble reports may be used to estimate the probability of crosstalk.
- 16.2.5.4.1.18.2 99% of Loop Combinations shall have probability ≤ 0.1% of experiencing crosstalk exceeding -65 dBm0.

16.2.5.4.1.19 Clipping

- 16.2.5.4.1.19.1 Clipping occurs when part of a transmitted signal is dropped and does not reach the receiving portion on a connection. It can be caused by Digital Speech Interpolation (DSI) equipment used in Digital Circuit Multiplication Systems (DCMS) which increase the amount of traffic that transmission facilities carry, and by echo cancelers or echo suppressers.
- 16.2.5.4.1.19.2 No clipping incidents shall occur on any call.

16.2.5.4.2 Digital Impairments

Digital impairments occur in the signal wherever it is transmitted in digital format. These errors are usually introduced upon conversion of the signal from analog to digital, as well as at interfaces between digital components. While many digital impairments have little impact on subjective voice quality, they can impact voiceband data performance.

16.2.5.4.2.1 Signal Correlated Distortion

- 16.2.5.4.2.1.1 Signal correlated distortion (SCD) is unwanted noise or distortion introduced into a signal through the conversion of a signal from analog to digital format or through digital processing that changes the transmitted signal. SCD affects performance when a sign is being transmitted. The primary sources of SCD are signal encoders, echo cancelers, digital loss pads, and robbed bit signaling. SCD affects both voice and voiceband data performance.
- 16.2.5.4.2.1.2 The NID-to-end-office connection shall allow:
- 16.2.5.4.2.1.2.1 A maximum of 1 A/D conversion, using 64Kbps μ -law (μ =255) PCM;
- 16.2.5.4.2.1.2.2 No voice compression;
- 16.2.5.4.2.1.2.3 No echo cancellation; and
- 16.2.5.4.2.1.2.4 Robbed bit signaling only if SS7 or ISDN are not used.
- 16.2.5.4.2.2 Slips
- 16.2.5.4.2.2.1 Slips occur when a frame of digital data is either deleted or repeated because of differences in the clocks used to synchronize digital facilities. Slips sound like clicks or pops on voice calls and have major impact on voiceband data performance.
- 16.2.5.4.2.2.2 The NID-to-interexchange carrier point of termination portion of connections shall have fewer than 0.45 slips every 24 hours on average.

16.2.5.4.2.3 Digital Timing Jitter and Wander

16.2.5.4.2.3.1 Digital timing jitter is the unwanted phase modulation of digital signals at rates above 10 Hz. Wander is the unwanted phase modulation of digital signals at rates below 10 Hz. Digital timing jitter is caused by imperfections in the timing recovery process of repeaters and the stuffing synchronization process used by multiplexer/demultiplexers. Wander is caused by slowly varying changes in digital signal phase due to clock frequency offset and drift, changes in propagation delay of terrestrial

facilities due to temperature changes and changes in the distance of satellites from the earth. These events have a major impact on voiceband data performance.

16.2.5.4.2.3.2 The maximum digital timing jitter allowed in the 10 Hz to 8 kHz frequency band at any network interface or any terminal equipment in the network is 5 Unit Intervals (UI). The maximum digital timing jitter allowed in the 8 kHz to 40 kHz frequency band is 0.1 UI. The objective for wander is less than 28 UI at any network interface or terminal equipment.

16.2.5.4.2.4 **DS-1 Errored Seconds**

- 16.2.5.4.2.4.1 An Errored Second (ES) on a DS-1 facility is any second during which at least 1 bit is in error. The impact of an ES on performance depends on the number of errors that occur during a second. Typically, voice performance is not significantly impacted by ES but they can cause errors in voiceband data transmissions.
- 16.2.5.4.2.4.2 Each BellSouth work shall have less than 20 ESs per 24 hour period.

16.2.5.4.2.5 DS-1 Severely Errored Seconds

- 16.2.5.4.2.5.1 A severely Errored Second (SES) is any second during which a DS-1 has an error rate exceeding 0.001. An SES can be caused by a loss of framing, a slip, or a protection switch. SESs have impacts on both voice and voiceband data performance. For voice, an SES will sound like a burst of noise or static. SESs that occur during a voiceband data transmission cause a significant burst of errors and can cause modems to retrain.
- 16.2.5.4.2.5.2 The digital portion of each NID to POP connection shall have less than 2 SESs per 24 hour period).

16.2.5.4.2.6 Short Failure Events

16.2.5.4.2.6.1 A Short Failure Event (SFE) is a Loss of Frame (LOF) event of less than two minutes' duration. An LOF event is declared when, on detection of a Loss of Signal (LOS) or Out-of-Frame (OOF), a rise-slope-type integration process starts that declares a LOF after 2.5±0.5 sec. of continuous LOS or OOF. If the LOS or OOF is intermittent, the integration process shall decay at a slope of 1/5 the rise slope during the period when the signal is normal. Thus, if the ratio of a LOS or OOF to a normal signal is greater than 1/2, a LOF will be declared. A LOS condition shall be declared when the Network Channel Terminating Equipment has determined that 175±75 successive pulse positions with

no pulses of either positive or negative polarity have occurred. An OOF condition shall be declared when either Network equipment or Digital Terminal Equipment detects errors in the framing pattern.

16.2.5.4.2.6.2 There shall be fewer than 1 SFE per month.

16.2.5.5 Service Availability and Reliability

Availability refers to the time period during which the service is up and usable for its intended purpose. Reliability refers to the probability that a task will be completed successfully, given that it is successfully begun. Where available BellSouth shall provide real-time, remote data access to performance monitoring and alarm data on events affecting (or potentially affecting) HTI's traffic.

16.2.5.5.1 Blocked Calls

- 16.2.5.5.1.1 Blocking is the fraction of call origination attempts denied service during a stated measurement period. Blocking occurs because of competition for limited resources within the network.
- 16.2.5.5.1.2 For intraLATA toll service as well as for local exchange service, the blocking level from originating network interface (NID) to terminating NID shall not exceed 1% in any hour, except under conditions of service disruption. For access to or egress from the HTI long distance network, the blocking rate shall not exceed 0.5% in any hour, except under conditions of service disruption.

16.2.5.5.2 Blocked Dial Tone

- 16.2.5.5.2.1 Blocked dial tone occurs when the subscriber does not receive dial tone within 11 seconds of going off-hook.
- 16.2.5.5.2.2 Customers shall not experience more than 0.1% dial tone blocking during average busy season busy hour (ABSBH).

16.2.5.5.3 **Downtime**

Downtime is the period of time that a system is in a failed state.

- 16.2.5.5.3.1 The average downtime for all subscriber Loop Combinations shall be less than 49 minutes per year. The maximum downtime for 99% of all subscriber Loop Combinations shall be less than 74 minutes per year.
- 16.2.5.5.3.2 The average downtime for an end office switch shall be less than 3 minutes per year. The average downtime for individual trunks shall be less than 28 minutes per year. The average downtime for digital trunk groups shall be less than 20 minutes per year. The average downtime

for an individual line appearance at the switch shall be less than 28 minutes per year. The average downtime for a Remote Terminal (RT) shall be less than 17 minutes per year. The average downtime for an individual line on a Remote Terminal (RT) shall be less than 13 minutes per year.

- 16.2.5.5.3.3 The mean time to repair (MTTR) of any equipment at an attended site shall be less than 3 hours. The mean time to repair (MTTR) of any equipment at an unattended site shall be less than 4 hours. 95% of all repairs to the network interface (NID) shall be completed within 24 hours.
- 16.2.5.5.3.4 There shall be no downtime due to power failures at the switch.
- 16.2.5.5.3.5 The probability of a stable call being cut off shall be less than 20 cutoffs per one million 1 minute calls.
- 16.2.5.5.3.6 The rate of ineffective machine attempts at the end office shall be less than 0.0005 (5 failures per 10,000 call attempts).

16.2.5.5.3.7 **DELETED**

16.2.5.5.4 Dial Tone Delay

- 16.2.5.5.4.1 Dial-Tone Delay is the time period between a customer off-hook and the receipt of dial tone from an originating end office. Dial-Tone Delay has a significant effect on customer opinion of service quality.
- 16.2.5.5.4.2 The average dial-tone delay shall not exceed 0.6 seconds. At most 0.5% of calls during the average-season busy hour (ABSBH) shall experience dial-tone delay greater than 3 seconds. At most 8% of calls during the ten-high-day busy hour (THDBH) shall experience dial-tone delay greater than 3 seconds. At most 10% of calls during the high-day busy hour (HDBH) shall experience dial-tone delay greater than 3 seconds.

16.2.5.5.5 Dial Tone Removal

- 16.2.5.5.5.1 Dial tone removal is the time between recognition of the first address digit to the removal of dial tone on the line.
- 16.2.5.5.5.2 The maximum dial tone removal interval shall be ≤ 500 milliseconds.

16.2.5.5.6 Post Dial Delay

16.2.5.5.6.1 Post Dial Delay (PDD) is the amount of time a caller must wait after entering or dialing the last digit of a Destination Telephone Number (DTN) before hearing a valid audible network response. The PDD for an

- end user is measured from the time the caller has pressed or dialed the last digit of a DTN until receipt of an audible network response.
- 16.2.5.5.6.2 The requirements given reflect an end-to-end CCS7 protocol for HTI end users. Where a mixture of CCS7 and inband (MF) signaling protocols are employed, an increase in the PDD can be expected.
- 16.2.5.5.6.2.1 PDD 1 A Intra HTI LSO
- 16.2.5.5.6.2.1.1 Intra-LSO calls do not employ external signaling protocols. The PDD for intra-LSO calls flows are dependent upon the processor cycle time and traffic load conditions. This PDD is assumed to be between customers on the same HTI LSO, between the Remote Switch Modules (RSMs) on the same Host, or between an RSM and 5ESS Host customers.
- 16.2.5.5.6.2.1.2 The objective for intra-LSO PDD is less than 310 milliseconds for 50% of all calls and less than 460 milliseconds for 95% of all calls.
- 16.2.5.5.6.2.2 PDD1 B HTI LSO to Another HTI Local LSO
- 16.2.5.5.6.2.2.1 The signaling protocols from an HTI LSO to another HTI LSO are assumed to employ out-of-band Common Channel Signaling System 7 (CCS7) format. Local calls, that is, calls from an HTI LSO to another HTI LSOs are assumed to have no more than one pair of Signaling Transfer Point Switches (STPSs) and no more than one data base dip.
- 16.2.5.5.6.2.2.2 This PDD is expected to be better than the HTI Long Distance objective with an average PDD of ≤ .870 seconds with 95% ≤ 1.34 seconds.
- 16.2.5.5.6.2.3 PDD1 C HTI LSO to Other LSO
- 16.2.5.5.6.2.3.1 Calls from an HTI LSO to other LSOs are dependent upon the interface agreements between HTI and the LSO service provider and may employ CCS7, inband (MF) or a combination of both protocols.
- 16.2.5.5.6.2.3.2 Calls from an HTI LSO to another LSO via the Public Switched Telecommunications Network (PSTN), using end-to-end CCS7 signaling protocols, can expect to meet the HTI PDD objectives of an average of 2.0 seconds with 95% in ≤ 2.5 seconds. Calls from an HTI LSO via the PSTN to LSOs outside the local service area are assumed to use CCS7 signaling protocols to the HTI #4ESS.™ The egress signaling protocols from the HTI Switched Network (ASN) to the many different local telephone company service providers however does not necessarily

- utilize CCS7 signaling. There are three basic egress signaling configuration. They are:
- 16.2.5.5.6.2.3.2.1 Network Inter-Connect, CCS7 between HTI and the local telephone company.
- 16.2.5.5.6.2.3.2.2 Inband Multifrequency (MF) signaling protocols without a BellSouth egress tandem in the connection.
- 16.2.5.5.6.2.3.2.3 Inband MF signaling protocols with a BellSouth egress tandem in the connection.
- 16.2.5.5.6.2.3.2.3.1 Calls from an HTI LSO to other LSOs outside the local service area are assumed to have multiple STPSs for 1+ traffic in the access and ASN portion of the connection. The egress from the ASN for 1+ traffic is again dependent upon the interface agreements in that service area and may consist of CCS7 or inband MF protocols.
- 16.2.5.5.6.2.3.2.3.2 Calls from an HTI's LSO to another HTI LSO with a mixture of CCS7 or all inband signaling protocols are expected to receive PDDs on the average of 2.9 seconds with 95% in ≤ 6.5 seconds.
- 16.2.5.5.6.2.4 PDD2 HTI LSO to Operator Services
- 16.2.5.5.6.2.4.1 The signaling protocols between an HTI LSO and the HTI ASN 5ESS® Operator Services Position Systems (OSPS) will employ IN-band Feature Group C Modified Operator Services Multifrequency signaling format. As with 1+ traffic, the egress from the ASN to the local service providers LSO is dependent upon the interface.
- 16.2.5.5.6.2.5 PDD2 A HTI LSO to 5ESS® OSPS 0 Only
- 16.2.5.5.6.2.5.1 When a "0" has been entered by the customer, timing is applied in the absence of a DTMF "#". If a "#" is not entered, the objective is for the timer to expire in 4 seconds +/- 1 second. After the timer has expired, or the "#" has been entered, the average PDD shall not exceed 2.2 seconds.
- 16.2.5.5.6.2.6 PDD2 B 0 Plus Calls

On calls where analysis of the first 6 digits (area code + central office code) is required, the PDD shall not exceed 2.0 seconds on the average, and 2.5 seconds in 95% of all occurrences. For calls that require analysis of the 10-digits CALLED number and the 7 digits of calling number (ANI, e.g. Automatic Charge Quotation Service) the PDD is expected to be 4.5 seconds on the average and < 5.0 seconds in 95% of all occurrences. These delays are based on the calling customer

receiving a network response as described above, specifically the calling card alerting tone from the 5ESS® OSPS. The remaining call completion PDD to the DTN, after the customer has completed the Operator Service function, will take the form of the PDDs discussed in PDD1-C.

16.2.5.5.6.2.7 Impact of Local Number Portability (LNP)

Local Number Portability will increase PDDs. If a call forwarding option is used as an interim solution for LNP, the delay due to additional switching in the local access is estimated to be 0.3 seconds (mean) and 0.4 seconds (95th percentile) in addition to the PDDs described earlier. These estimates assumes CCS7 signaling between LSOs. If inband signaling is used between LSOs, the PDD will be increased by 1.9 to 3.6 (1.7+1.9) seconds compared to the PDDs provided in the section on Post Dial Delay.

16.2.5.5.6.2.8 Custom Local Area Subscriber Services (CLASS)

CLASSSM features such as Calling Name Delivery can contribute to the PDD of a call. This delay is caused by the additional time (BellSouth option) before the ringing interval commences. This default delay is 3 seconds. Optional settings are available in 1 second intervals from 1 to 6 seconds. Calls to DTNs that have CLASSSM features, particularly with calling name delivery, can expect to experience from 1 to 6 seconds (3 seconds default) of additional PDD compared to the PDDs shown for PDD1-C.

16.2.5.5.6.2.9 Partial Dial Timing

- 16.2.5.5.6.2.9.1 The interval between each information digit from a customer's line, until the LSO or switching system has determined that the digit string is incomplete.
- 16.2.5.5.6.2.9.2 For customer lines, partial dial timing shall be ≥ 16 seconds and ≤ 24 seconds. For trunks, inband signaling time-out shall be ≥ 5 seconds and ≤ 20 seconds.

16.2.5.6 Local Switching

BellSouth shall provide performance equal to or better than the requirements for Local Switching set forth in Bellcore LSSGR TR-TSY-000511. Post dial delay for connections to HTI local operator services shall be no worse than Operator Services provided by BellSouth. Additionally, post dial delay from the Operator Services to destination numbers shall be no worse than that provided by BellSouth. Post dial delay for connections to HTI local Directory Assistance Services shall be

no worse than Directory Assistance Services provided by BellSouth. Additionally, post dial delay from the directory system to destination numbers shall be no worse than that provided by BellSouth. Specific requirements for the Data Switching function of Local Switching are in Section 5.3. In all cases the performance of Data Switching shall meet the general requirements stated in "General Performance Requirements." Allocation of impairments shall be negotiated between HTI and BellSouth.

16.2.5.7 Operator Systems

Operator System connections shall comply with the requirements for the Loop Combination, Local Switching, Operator Service, and Directory Assistance Service requirements.

16.2.5.8 Common Transport

Specific requirements for this Network Element or Ancillary Function are in the Common Transport section. In all cases the performance of this Network Element shall meet the general requirements stated Section 16.2 of this Attachment 2. Allocation of impairments shall be negotiated between HTI and BellSouth.

16.2.5.9 Dedicated Transport

Specific requirements for this Network Element are in the Dedicated Transport section. In all cases the performance of this Network Element shall meet the general requirements stated in "General Performance Requirements." Allocation of impairments shall be negotiated between HTI and BellSouth.

16.2.5.10 Signaling Transfer Points

Specific requirements for this Network Element are in the Signaling Transfer Points section. In all cases the performance of this Network Element shall meet the general requirements stated in Section 16.2 of this Attachment 2. Allocation of impairments shall be negotiated between HTI and BellSouth.

16.2.5.11 Signaling Link Transport

Specific requirements for this Network Element are in the Signaling Link Transport section. In all cases the performance of this Network Element shall meet the general requirements stated in "General Performance Requirements." Allocation of impairments shall be negotiated between HTI and BellSouth.

16.2.5.12 SCPs/Databases

The performance requirements for databases (LNP, LIDB, E911, etc.) vary depending on the database and the application(s) it supports. Database-specific performance requirements are included in the sections addressing individual Network Elements and in applicable Bellcore documents. In all cases, the query response time, availability, accuracy, updating capabilities, and other performance parameters shall at least be at parity with those services as provided to BellSouth or other customer.

16.2.5.13 Tandem Switching

Specific requirements for this Network Element are in the Tandem Switching section. In all cases the performance of this Network Element shall meet the general requirements stated in Section 16.21 of this Attachment 2. Allocation of impairments shall be negotiated between HTI and BellSouth.

16.2.6 Test and Verification

- 16.2.6.1 BellSouth shall permit HTI to confirm acceptable performance of any Network Element.
- 16.2.6.1.1 At HTI's request, BellSouth will provide access to the Network Element sufficient for HTI to test the performance of that Network Element to HTI's satisfaction.
- At HTI's request, BellSouth will perform tests to confirm acceptable performance and provide HTI with documentation of test procedures and results acceptable to HTI.

16.3 Protection, Restoration, and Disaster Recovery

16.3.1 **Scope:**

This Section refers specifically to requirements on the use of redundant network equipment and facilities for protection, restoration, and disaster recovery.

16.3.2 Requirements

BellSouth shall provide protection, restoration, and disaster recovery capabilities at parity with those capabilities provided for their own services, facilities and equipment (e.g., equivalent circuit pack protection ratios, facility protection ratios).

- 16.3.2.2 BellSouth shall provide Network Elements and Ancillary Functions equal priority in protection, restoration, and disaster recovery as provided to their own services, facilities and equipment.
- 16.3.2.3 BellSouth shall provide Network Elements and Ancillary Functions equal priority in the use of spare equipment and facilities as provided to their own services, facilities and equipment.
- On a nondiscriminatory basis as to other BellSouth customers, BellSouth shall restore Network Elements that are specific to HTI end user customers on a priority basis as HTI may designate.

16.4 Synchronization

16.4.1 **Definition**

Synchronization is the function which keeps all digital equipment in a communications network operating at the same average frequency. With respect to digital transmission, information is coded into discrete pulses. When these pulses are transmitted through a digital communications network, all synchronous Network Elements are traceable to a stable and accurate timing source. Network synchronization is accomplished by timing all synchronous Network Elements in the network to a stratum 1 source so that transmission from these network points have the same average line rate.

16.4.2 Technical Requirements

The following requirements are applicable to the case where BellSouth provides synchronization to equipment that HTI owns and operates within a BellSouth location. In addition, these requirements apply to synchronous equipment that is owned by BellSouth and is used to provide a Network Element to HTI.

- The synchronization of clocks within digital networks is divided into two parts: intra-building and inter-building. Within a building, a single clock is designated as the Building Integrated Timing Supply (BITS), which provides all of the DS1 and DS0 synchronization references required by other clocks in such building. This is referred to as intra-building synchronization. The BITS receives synchronization references from remotely located BITS. Synchronization of BITS between buildings is referred to as inter-building synchronization.
- To implement a network synchronization plan, clocks within digital networks are divided into four stratum levels. All clocks in strata 2, 3, and 4 are synchronized to a stratum 1 clock, that is, they are traceable to a stratum 1 clock. A traceable reference is a reference that can be

traced back through some number of clocks to a stratum 1 source. Clocks in different strata are distinguished by their free running accuracy or by their stability during trouble conditions such as the loss of all synchronization references.

16.4.2.2.1 Intra-Building

Within a building, there are different kinds of equipment that require synchronization at the DS1 and DS0 rates. Synchronization at the DS1 rate is accomplished by the frequency synchronizing presence of buffer stores at various DS1 transmission interfaces. Synchronization at the DS0 rate is accomplished by using a composite clock signal that phase synchronizes the clocks. Equipment requiring DS0 synchronization frequently does not have adequate buffer storage to accommodate the phase variations among different equipment. Control of phase variations to an acceptable level is accomplished by externally timing all interconnecting DS0 circuits to a single clock source and by limiting the interconnection of DS0 equipment to less than 1,500 cable feet. Therefore, a BITS shall provide DS1 and composite clock signals when appropriate The composite signal is a 64-kHz 5/8th duty cycle, return to zero with a bipolar violation every eighth pulse (B8RZ).

16.4.2.2.2 Inter-Building

BellSouth shall provide inter-building synchronization at the DS1 rate, and the BITS shall accept the primary and secondary synchronization links from BITS in other buildings. From hierarchical considerations, the BITS shall be the highest stratum clock within the building and BellSouth shall provide operations capabilities (this includes, but is not limited to: synchronization reference provisioning; synchronization reference status inquiries; timing mode status inquiries; and alarm conditions).

16.4.3 Synchronization Distribution Requirements

- 16.4.3.1 Central office BITS shall contain redundant clocks meeting or exceeding the requirements for a stratum 2 clock as specified in ANSI T1.101-1994 and Bellcore TR-NWT-001244 Clocks for the Synchronized Network:

 Common Generic Criteria.
- 16.4.3.2 Central office BITS shall be powered by primary and backup power sources.
- 16.4.3.3 If both reference inputs to the BITS are interrupted or in a degraded mode (meaning off frequency greater than twice the minimum accuracy of the BITS, loss of frame, excessive bit errors, or in Alarm Indication Signal), then the stratum clock in the BITS shall provide the necessary

bridge in timing to allow the network to operate without a frame repetition or deletion (slip free) with better performance than 1 frame repetition or deletion (slip) per week.

- DS1s multiplexed into a SONET synchronous payload envelope within an STS-n (where n is defined in ANSI T1.105-1995) signal shall not be used as reference facilities for network synchronization.
- 16.4.3.5 The total number of Network Elements cascaded from the stratum 1 source shall be minimized.
- 16.4.3.6 A Network Element shall receive the synchronization reference signal only from another Network Element that contains a clock of equivalent or superior quality (stratum level).
- 16.4.3.7 BellSouth shall select for synchronization those facilities shown to have the greatest degree of availability (absence of outages).
- Where possible, all primary and secondary synchronization facilities shall be physically diverse (this means the maximum feasible physical separation of synchronization equipment and cabling).
- 16.4.3.9 No timing loops shall be formed in any combination of primary and secondary facilities.
- 16.4.3.10 An Operations Support System (OSS) shall continuously monitor the BITS for synchronization related failures or degradation.
- 16.4.3.11 An OSS shall continuously monitor all equipment transporting synchronization facilities for synchronization related failures or degradation.
- 16.4.3.12 For non-SONET equipment, BellSouth shall provide synchronization facilities which, at a minimum, comply with the standards set forth in ANSI T1.101-1994.
- 16.4.3.13 For SONET equipment, BellSouth shall provide synchronization facilities that have time deviation (TDEV) for integration times greater than 0.05 seconds and less than or equal to 10 seconds, that is less than or equal to 10 nanoseconds. TDEV, in nanoseconds, for integration times greater than 10 seconds and less than 1000 seconds, shall be less than 3.1623 times the square-root of the integration time. For example, for integration times of 25 seconds, TDEV shall be less than 15.8 nanoseconds.
- 16.5 SS7 Network Interconnection

16.5.1 **Definition**

Figure 9 depicts Signaling System 7 (SS7) Network Interconnection. SS7 Network Interconnection is the interconnection of HTI local Signaling Transfer Point Switches (STPS) and HTI local or tandem switching systems with BellSouth STPSs. This interconnection provides connectivity that enables the exchange of SS7 messages among BellSouth switching systems and databases (DBs), HTI local or tandem switching systems, and other third-party switching systems directly connected the to BellSouth SS7 network.

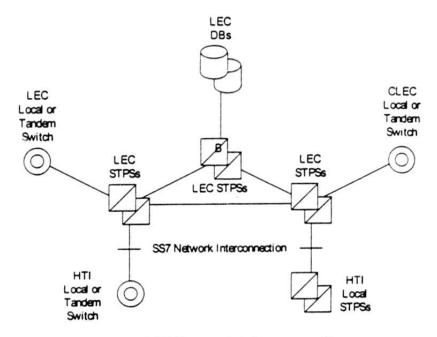


Figure 9. SS7 Network Interconnection

16.5.2 Technical Requirements

- 16.5.2.1 SS7 Network Interconnection shall provide connectivity to all components of the BellSouth SS7 network. These include:
- 16.5.2.1.1 BellSouth local or tandem switching systems;
- 16.5.2.1.2 BellSouth DBs; and
- 16.5.2.1.3 Other third-party local or tandem switching systems.
- The connectivity provided by SS7 Network Interconnection shall fully support the functions of BellSouth switching systems and DBs and HTI or other third-party switching systems with A-link access to the BellSouth SS7 network.

In particular Figure 10 depicts a circumstance where SS7 Network Interconnection shall provide transport for certain types of Transaction Capabilities Application Part (TCAP) messages. If traffic is routed based on dialed or translated digits between an HTI 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 HTI local STPSs and BellSouth or other third-party local switch.

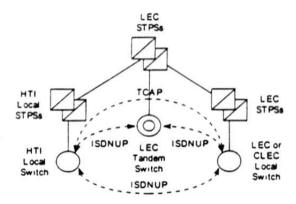


Figure 10. Interswitch TCAP Signaling for SS7 Network Interconnection

- When the capability to route messages based on Intermediate Signaling Network Identifier (ISNI) is generally available on BellSouth STPSs, 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).
- 16.5.2.5 SS7 Network Interconnection shall provide all functions of the MTP as specified in ANSI T1.111 (Reference 16.5, 16.5.4, 16.5.4.2). This includes:
- 16.5.2.5.1 Signaling Data Link functions, as specified in ANSI T1.111.2;
- 16.5.2.5.2 Signaling Link functions, as specified in ANSI T1.111.3; and
- 16.5.2.5.3 Signaling Network Management functions, as specified in ANSI T1.111.4.

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16.5.2.6	SS7 Network Interconnection shall provide all functions of the SCCP necessary for Class 0 (basic connectionless) service, as specified in ANSI T1.112 (Reference 16.5, 16.5.4, 16.5.4.4). In particular, this includes Global Title Translation (GTT) and SCCP Management procedures, as specified in T1.112.4. Where the destination signaling point is a BellSouth switching system or DB, or is another third-party local or tandem switching system directly connected to the BellSouth SS7 network, SS7 Network Interconnection shall include final GTT of messages to the destination and SCCP Subsystem Management of the destination. Where the destination signaling point is an HTI local or tandem switching system, SS7 Network Interconnection shall include intermediate GTT of messages to a gateway pair of HTI local STPSs, and shall not include SCCP Subsystem Management of the destination.
16.5.2.7	SS7 Network Interconnection shall provide all functions of the Integrated Services Digital Network User Part (ISDNUP), as specified in ANSI T1.113 (Reference 16.5, 16.5.4, 16.5.4.5).
16.5.2.8	SS7 Network Interconnection shall provide all functions of the TCAP, as specified in ANSI T1.114 (Reference 16.5, 16.5.4, 16.5.4.6).
16.5.2.9	If and when Internetwork MTP Routing Verification Test (MRVT) and SCCP Routing Verification Test (SRVT) become approved ANSI standards and available capabilities of BellSouth STPSs, SS7 Network Interconnection shall provide these functions of the OMAP.
16.5.2.10	SS7 Network Interconnection shall be equal to or better than the following performance requirements:
16.5.2.10.1	MTP Performance, as specified in ANSI T1.111.6;
16.5.2.10.2	SCCP Performance, as specified in ANSI T1.112.5; and
16.5.2.10.3	ISDNUP Performance, as specified in ANSI T1.113.5.
16.5.3	Interface Requirements
16.5.3.1	BellSouth shall offer the following SS7 Network Interconnection options to connect HTI or HTI-designated local or tandem switching systems or STPSs to the BellSouth SS7 network:
16.5.3.1.1	A-link interface from HTI local or tandem switching systems; and
16.5.3.1.2	D-link interface from HTI STPSs.
16.5.3.2	Each interface shall be provided by one or more sets (layers) of signaling links, as follows:

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16.5.3.2.1 An A-link layer shall consist of two links, as depicted in Figure 11.

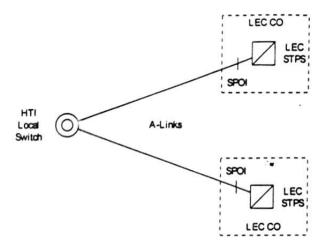


Figure 11. A-Link Interface

16.5.3.2.2 A D-link layer shall consist of four links, as depicted in Figure 12.

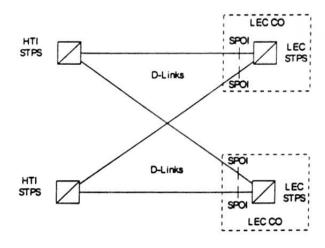


Figure 12. D-Link Interface

- 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 STPS 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 HTI local switching systems or STPSs with BellSouth STPSs as soon as these become approved ANSI standards and available capabilities of BellSouth STPSs. BellSouth and HTI will work jointly to establish mutually acceptable SPOI.
- 16.5.3.4 BellSouth CO shall provide intraoffice diversity between the SPOIs and the BellSouth STPS, so that no single failure of intraoffice facilities or equipment shall cause the failure of both D-links in a layer connecting to a BellSouth STPS. BellSouth and HTI will work jointly to establish mutually acceptable SPOI.
- 16.5.3.5 The protocol interface requirements for SS7 Network Interconnection include the MTP, ISDNUP, SCCP, and TCAP. These protocol interfaces shall conform to the following specifications:
- 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);
- 16.5.3.5.2 Bellcore GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service;
- 16.5.3.5.3 Bellcore GR-1429-CORE, CCS Network Interface Specification (CCSNIS) Supporting Call Management Services; and
- 16.5.3.5.4 Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).
- 16.5.3.6 BellSouth shall set message screening parameters to block accept messages from HTI local or tandem switching systems destined to any signaling point in the BellSouth SS7 network with which the HTI switching system has a legitimate signaling relation.
- 16.5.4 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:

Page 103 16.5.4.1 ANSI T1.110-1992 American National Standard Telecommunications -Signaling System Number 7 (SS7) - General Information; 16.5.4.2 ANSI T1.111-1992 American National Standard for Telecommunications Signaling System Number 7 (SS7) - Message Transfer Part (MTP); 16.5.4.3 ANSI T1.111A-1994 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Message Transfer Part (MTP) Supplement; ANSI T1.112-1992 American National Standard for Telecommunications 16.5.4.4 - Signaling System Number 7 (SS7) - Signaling Connection Control Part (SCCP): 16.5.4.5 ANSI T1.113-1995 American National Standard for Telecommunications Signaling System Number 7 (SS7) - Integrated Services Digital Network (ISDN) User Part; 16.5.4.6 ANSI T1.114-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Transaction Capabilities Application Part (TCAP); 16.5.4.7 ANSI T1.115-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Monitoring and Measurements for Networks: 16.5.4.8 ANSI T1.116-1990 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Operations, Maintenance and Administration Part (OMAP); 16.5.4.9 ANSI T1.118-1992 American National Standard for Telecommunications - Signaling System Number 7 (SS7) - Intermediate Signaling Network Identification (ISNI); 16.5.4.10 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); 16.5.4.11 Bellcore GR-954-CORE, CCS Network Interface Specification (CCSNIS) Supporting Line Information Database (LIDB) Service; 16.5.4.12 Bellcore GR-1428-CORE, CCS Network Interface Specification (CCSNIS) Supporting Toll Free Service; 16.5.4.13 Bellcore GR-1429-CORE, CCS Network Interface Specification (CCSNIS) Supporting Call Management Services; and,

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- 16.5.4.14 Bellcore GR-1432-CORE, CCS Network Interface Specification (CCSNIS) Supporting Signaling Connection Control Part (SCCP) and Transaction Capabilities Application Part (TCAP).
- 16.6 Network Interconnection
- 16.6.1 Technical Requirements
- 16.6.1.1 When requested by HTI, BellSouth shall provide interconnections between BellSouth Network Elements provided to HTI and HTI's network at transmission rates designated by HTI, including, but not limited to DS1, DS3, and STS-1.
- 16.6.1.2 Traffic shall be combined and routed as follows:
- 16.6.1.2.1 BellSouth shall provide direct trunks for local and intraLATA traffic (except 911, directory assistance, operator services, and other services that may require special routing) and, at HTI's request, BellSouth shall allow HTI to route such traffic either directly to a BellSouth's tandem or directly to a BellSouth's end-office.
- At HTI's request, BellSouth shall receive HTI traffic destined to BellSouth Operator Systems Network Element, on trunks from an HTI end-office or an HTI tandem.
- At HTI's request, BellSouth shall receive HTI CAMA-ANI (Centralized Automatic Message Accounting Automatic Number identification) traffic destined to BellSouth B911 PSAPs, or E911 tandems, on trunks from an HTI end-office.
- 16.6.1.2.4 **DELETED**
- When requested by HTI and a third party carrier, BellSouth shall provide interconnections between HTI's network, and the other carrier's network through BellSouth network at transmission rates designated by HTI, including, but not limited to DS1, DS3, and STS-1. BellSouth shall combine and route traffic to and from other local carriers and interLATA carriers through BellSouth network, and at HTI's request, BellSouth shall record and keep records of such traffic for HTI billing purposes.
- The parties agree to implement the most efficient trunking arrangement to exchange all traffic unless otherwise agreed. For purposes of this Section, "most efficient" means the fewest number of trunks required to carry a forecasted load at P.01 grade of service. Initially, BellSouth will provide one-way trunk groups for completion of BellSouth originated local and intraLATA traffic and HTI will provide two-way trunk groups for

16.6.1.5

DELETED

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completion of HTI originated local and intraLATA traffic. HTI and BellSouth will continue to utilize existing separate two-way trunk groups for the origination and termination of interLATA traffic. This arrangement is depicted in Figure A.

BellSouth and HTI each agree to use best efforts to implement the most efficient interconnection architecture. The parties agree to meet every six months for the duration of this Agreement commencing with the Effective Date to analyze the trunk recording capabilities and define the administration M&Ps by which Figure B can be properly implemented. When these M&Ps are agreed to by the parties, BellSouth and HTI will utilize two way trunks for origination and termination of local and intraLATA traffic.

BellSouth and HTI further agree to implement the most efficient trunking arrangement, as depicted by Figure C, within twelve (12) months of industry agreement on arrangements to pass Carrier Identification Codes on all calls exchanged between two different service providers' networks.

В C A Initial Interconnection More Efficient Interconnection Most Efficient Interconnection BellSouth BellSouth BellSouth Access Access Access Tandem Tandem Tandem Combraed InterLATA IntraLATA -LATA outc OLEC HTI End Office one-way trunk group two -way trunk group

TRUNKING

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- 16.6.1.6 All trunking provided by BellSouth shall adhere to the applicable performance requirements set forth in Section 16.2 of Attachment 2.

 16.6.1.7 At HTI's request, BellSouth shall provide for overflow routing from a given high usage trunk group or groups onto another final tandem trunk
- BellSouth and HTI shall agree on the establishment of two-way trunk groups for the exchange of traffic for other IXCs. These trunk groups can be provided in a "meet point" arrangement.
- Interconnection shall be made available upon HTI's request at any technically feasible point of interface. All trunk interconnections shall be provided, including, SS7, MF, DTMF, DialPulse, PRI-ISDN (where available), DID (Direct Inward Dialing), CAMA-ANI, and trunking necessary so that interim LNP can be provided.
- 16.6.1.10 Trunk Interface Requirements
- 16.6.1.10.1 **B911/E911 Trunks**

group.

- 16.6.1.10.1.1 **DELETED**
- 16.6.1.10.1.2 If a municipality has converted to E911 service, HTI will forward 911 calls to the appropriate E911 primary tandem, along with ANI, based upon the current E911 end office to tandem homing arrangement as provided by BellSouth. If the primary tandem trunks are not available, HTI will alternatively route the call to a designated 7-digit local number residing in the appropriate PSAP. This call will be transported over BellSouth's interoffice network and will not carry the ANI of the calling party, which is in parity with BellSouth's handling of 911 calls from its customers.
- 16.6.1.10.2 S911 Trunks
- 16.6.1.10.3 Local Switch and Access Tandem Trunks
- 16.6.1.10.3.1 BellSouth shall provide trunks groups provisioned exclusively to carry intraLATA traffic, as designated by HTI.
- 16.6.1.10.3.2 BellSouth shall provide trunk groups provisioned exclusively to carry interLATA traffic, as designated by HTI.
- 16.6.1.10.3.3 BellSouth shall provide SS7 trunks which provide SS7 interconnection. At HTI's request, MF trunks may be substituted for SS7 trunks where applicable.

16.6.1.10.3.4	[BellSouth shall simultaneous route calls based on dialed digits (in accordance with the standard GR-317-CORE), and Carrier Identification Code (in accordance with the standard GR-394-CORE) over a single SS7 trunk group.]

16.6.1.10.4 BellSouth Operator Services Trunk

- 16.6.1.10.4.1 For traffic from BellSouth's network to HTI for Operator Services,
 BellSouth shall provide one trunk group per NPA served by the local
 BellSouth switch.
- 16.6.1.10.4.2 BellSouth shall provide such trunks as one-way trunks from BellSouth network to the HTI network.
- 16.6.2 Network Interconnection between BellSouth and HTI shall meet or exceed all of the requirements for Network Interconnection set forth in the following technical references:
- 16.6.2.1 GR-317-CORE, Switching System generic requirements for Call Control Using the Integrated Services Digital Network User Part (ISDNUP), Bellcore, February, 1994;
- 16.6.2.2 GR-394-CORE, Switching System generic requirements for Interexchange Carrier Interconnection Using the Integrated Services Digital Network User Part (ISDNUP), Bellcore, February, 1994;
- 16.6.2.3 FR-NWT-000271, OSSGR Operator Services Systems generic requirements, Bellcore, 1994 Edition; and
- 16.6.2.4 FR-NWT-000064, LATA Switching Systems Generic Requirements (LSSGR), Bellcore, 1994 Edition.

16.7 Basic 911 and E911

16.7.1 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).

16.7.2 Requirements

 16.7.2.1 Basic 911 shall collect 911 calls from one or more local exchange switches that serve a geographic area. It shall then send these calls to the correct authority designated to receive such calls.

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16.7.2.2	E911 shall provide additional routing flexibility for 911 calls. E911 shall use customer data, contained in the Automatic Location Identification/Data Management System (ALI/DMS), to determine to which Public Safety Answering Point (PSAP) to route the call.
16.7.2.3	DELETED
16.7.2.4	Basic 911 and E911 functions provided to HTI shall be at least at parity with the support and services that BellSouth provides to its customers for such similar functionality.
16.7.2.5	Basic 911 and E911 access from Local Switching shall be provided to HTI in accordance with the following:
16.7.2.5.1	BellSouth shall conform to all state regulations concerning emergency services;
16.7.2.5.2	BellSouth shall route calls to the appropriate PSAP.
16.7.2.5.3	For B911, BellSouth shall provide voice only to the appropriate PSAP.
16.7.2.5.4	For E911, BellSouth shall use the process as described in the E911 Local Exchange Carrier Guide for Facility-Based Providers (ALEC Guide) to update and maintain customer information in the ALI/DMS database. BellSouth shall provide and validate customer information resident or entered into the ALI/DMS database.
16.7.2.5.5	DELETED
16.7.2.6	Basic 911 and E911 access from the HTI local switch shall be provided to HTI in accordance with the following:
16.7.2.6.1	If required by HTI, BellSouth shall interconnect direct trunks from the HTI network to the B911 PSAP, or the E911 tandems as designated by HTI. Such trunks may alternatively be provided by HTI.
16.7.2.6.2	For E911, BellSouth, shall receive data from HTI as described in the ALEC Guide (electronically via FTS or NDM) Errors will be mechanically faxed to HTI shortly after the errors are detected by the update process. HTI will transmit daily update files for "batch" processing within 24 hours of receipt of a "good file".
16.7.2.6.3	BellSouth shall provide HTI with an initial Master Street and Address Guide (MSAG) (paper or magnetic tape) no later than [date to be provided] and will provide updates of this MSG quarterly.
16.8	Electronic Interface

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BellSouth shall provide real time Electronic Interfaces ("EI") for transferring and receiving Service Orders and Provisioning data and materials (e.g., access Street Address Guide ("SAG") and Telephone Number Assignment database) as specified in Attachment 15. These interfaces shall be administered through a gateway that will serve as a point of contact for the transmission of such data from HTI to BellSouth, and from BellSouth to HTI. The requirements and implementation of such a date transfer system shall be negotiated in good faith by the parties as specified in Attachments 4, 5 and 15 of this Agreement. HTI and BellSouth have agreed upon interim solutions described in Attachments 4, 5 and 15. Until such time as a gateway addressing Pre-Ordering and Provisioning interfaces is established, BellSouth shall provide HTI Customers with the same quality of service BellSouth provides itself, a subsidiary, an Affiliate or any other customer.

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ATTACHMENT 3

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SERVICE DESCRIPTION: ANCILLARY FUNCTIONS

Introduction

This Attachment sets forth the descriptions and requirements for Ancillary Functions that BellSouth agrees to offer to HTI under this Agreement. HTI may use any Ancillary Function to provide any feature, function, or service option that such Ancillary Function is capable of providing or any feature, function, or service option that is described in the technical references identified herein.

Collocation

2.1 Definition - Collocation means the right of HTI to obtain space in BellSouth Premises and to place equipment in such spaces to interconnect with BellSouth network.

2.2 Technical Requirements

- 2.2.1 BellSouth shall provide space, as requested by HTI, to meet HTI's needs for placement of equipment, interconnection, or provision of service. HTI and BellSouth will jointly establish a written business process within ninety (90) days after the execution this Agreement by which such space can be procured.
- 2.2.2 BellSouth shall provide intraoffice facilities (e.g., DS0, DS1, DS3, OC3, OC12, OC48, and STS-1 terminations) as requested by HTI to meet HTI's need for placement of equipment, interconnection, or provision of service.
- 2.2.3 BellSouth agrees to allow HTI's employees and designated agents unrestricted access to HTI dedicated space in manned BellSouth offices twenty-four (24) hours per day each day of the week. BellSouth may place reasonable security restrictions on access by HTI's employees and designated agents to the HTI collocated space in unmanned BellSouth offices. Notwithstanding, BellSouth agrees that such space shall be available to HTI's employees and designated agents twenty-four (24) hours per day each day of the week. A security escort may be required in some locations for non-BellSouth personnel. HTI agrees to ensure each employee, agent or contractor hired by and working on behalf of HTI within BellSouth's central office openly wears a picture identification badge reflecting the individual's name, HTI's name/logo or affiliation to HTI.
- 2.2.4 HTI may collocate the amount and type of equipment it deems necessary in its collocated space (e.g., HTI utilizing its SONET termination equipment in the collocated space to provide a hub for OC3/OC48 rings). BellSouth shall not restrict the types of equipment or vendors of

equipment to be installed provided such equipment is used to provide Telecommunication Services. Such equipment must meet applicable industry standards.

- 2.2.5 BellSouth agrees to provide HTI with interconnection of HTI's collocated facilities to those of other carriers that are collocated in the same BellSouth Premise
- 2.2.6 HTI may select its own vendors for all required engineering and installation services associated with its collocated equipment (e.g., BellSouth shall not require HTI to utilize BellSouth's internal engineering or installation work forces for the engineering and installation of HTI's collocated equipment). Vendors utilized by HTI must be on BellSouth's list of certified vendors.
- 2.2.7 BellSouth shall provide basic telephone service at the tariffed rate for basic service with a connection jack as requested by HTI from BellSouth for the collocated space. Upon HTI's request, this service shall be available at the HTI collocated space on the day that the space is turned over to HTI by BellSouth.
- 2.2.8 BellSouth shall provide adequate lighting, ventilation, power, heat, air conditioning, and other environmental conditions for HTI's space and equipment. These environmental conditions shall adhere to Bell Communication Research (BellCore) Network Equipment-Building System (NEBS) standards TR-EOP-000063.
- 2.2.9 BellSouth shall provide access to eyewash stations, shower stations, bathrooms, and drinking water within the collocated facility on a twenty-four (24) hours per day, seven (7) days per week basis for HTI personnel and its designated agents.
- 2.2.10 HTI may request dual fiber entrance to the BellSouth Central Office.

 Where physically separate paths are not available, BellSouth will allow
 HTI to provide physical separation of the fibers within the riser and/or
 support structure by the placement of conduit or similar covering around
 one of the entrance fibers. This covering will be no larger than necessary
 to accommodate the protection of this one fiber.
- 2.2.11 BellSouth shall ensure protection of HTI's proprietary customer information. Any collocation arrangement shall include provisions for BellSouth protecting HTI's proprietary information.
- 2.2.12 BellSouth shall participate in and adhere to negotiated service guarantees, DMOQs, and ISO reviews.

- 2.2.13 Within three (3) business days of HTI's written request, BellSouth shall identify any known Environmental Hazard or Hazardous Materials in the space provided for placement of equipment and interconnection.
- 2.2.13.1 BellSouth shall allow HTI to perform any environmental site investigations, including, but not limited to, asbestos surveys, which HTI deems to be necessary in support of its collocation needs, at HTI's expense.
- 2.2.13.2 If the space provided for the placement of equipment, interconnection, or provision of service contains an Environmental Harzard or Hazardous Material, particularly but not limited to asbestos, lead paint or radon, which makes the placement of such equipment or interconnection hazardous, BellSouth shall offer an alternative space, if available; for HTI's consideration.
- 2.2.14 BellSouth shall provide HTI with written notice five (5) business days prior to those instances where BellSouth or its subcontractors may be performing work in the general area of the collocated space occupied by HTI, or in the general area of the AC and DC power plants which support HTI equipment that may directly impact HTI's equipment arrangement, facilities, or power supply. BellSouth will inform HTI by telephone of any emergency related activity that BellSouth or its subcontractors may be performing in the general area of the collocated space occupied by HTI, or in the general area of the AC and DC power plants which support HTI equipment that may directly impact HTI's equipment arrangement, facilities, or power supply. Notification of such emergency related activity shall be made immediately prior to the start of the activity so that HTI can take any action required to monitor or protect its service.
- 2.2.15 BellSouth shall construct the collocated space in compliance with HTI's collocation request for cable holes, ground bars, doors, and convenience outlets. Any deviation to HTI's request will be jointly negotiated with BellSouth.
- 2.2.16 HTI and BellSouth will complete an acceptance walk through of all collocated space requested from BellSouth. BellSouth will correct any deviations to HTI's original or jointly amended request within five (5) business days after the walk through or a negotiated time frame, depending on the magnitude of the deviation, at BellSouth's expense. Any other additions or changes to the original or jointly amended request will be at HTI's expense.
- 2.2.17 The Point of Termination bay will be part of cage walls of HTI's designated space. The logistics and floor plan drawing will be discussed at the first joint planning meeting as referenced in 2.2.18 below.

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- A joint planning meeting between BellSouth and HTI will commence within a maximum of thirty (30) days from BellSouth's receipt of a complete and accurate firm order and the payment of agreed to fees. The parties will exchange the following information at such meeting and establish scheduling for multi-site installations:
- 2.2.18.1 Telephone Equipment drawings depicting the exact path with dimensions, for HTI Outside Plant Fiber ingress and egress into collocated space.
- 2.2.18.2 Power feeder fuse slot assignment on the BellSouth Battery Distribution Frame Bay.
- 2.2.18.3 Work restriction guidelines.
- 2.2.18.4 Contact access and escalation process to the following areas:

Engineering
Physical & Logical Security
Provisioning
Billing
Operations
Site and Building Managers
Environmental and Safety

- 2.2.19 BellSouth shall provide the HTI selected certified equipment engineering vendor access to the Engineering Records Mark-up and Assignment (ERMA) Database for certified vendor power supply assignments.
- 2.2.20

 BellSouth shall provide positive confirmation to HTI when construction of HTI collocated space is 50% completed. This confirmation shall also include confirmation of the scheduled completion and turnover dates. HTI agrees to place operational telecommunications equipment in the BellSouth Premises and connect with BellSouth's network within one-hundred eighty (180) days of the space turnover date. If HTI fails to do so, HTI forfeits their rights to use the space on the thirtieth day after BellSouth provides HTI written notice of such failure and HTI does not place operational telecommunications in the premises and connect with BellSouth's network by such thirtieth day. In any such event, HTI shall be liable in an amount equal to the unpaid balance of any preparation charges due.
- 2.2.21 BellSouth will reimburse HTI in an amount equal to the HTI expenditures incurred as a result as a direct result of delays in the negotiated completion and turnover dates caused by BellSouth.
- 2.2.21.1 **DELETED**

Attachment 3 Page 5 2.2.21.2 DELETED 22213 DELETED 22214 DELETED 2.2.21.5 DELETED 2.2.22 Power as referenced in this document refers to any electrical power source supplied by BellSouth for HTI equipment. It includes all superstructure, infrastructure, and overhead facilities, including, but not limited to, cable, cable racks and bus bars. BellSouth will supply power to support HTI equipment at equipment specific DC and AC voltages. BellSouth shall supply power and power infrastructure to HTI at parity with that provided by BellSouth to itself or to any third party. BellSouth's performance, availability, or restoration shall meet BellCore/NEBS standards. If BellSouth's performance, availability, or restoration fall below BellCore/NEBS standards, BellSouth will bring itself into compliance as soon as technologically feasible. 2.2.22.1 Central office power supplied by BellSouth into the HTI equipment area. shall be supplied in the form of power feeders (cables) on cable racking into the designated HTI equipment area. The power feeders (cables) shall efficiently and economically support the requested quantity and capacity of HTI equipment. The termination location shall be as requested by HTI. Any deviations will be jointly agreed upon by BellSouth and HTI. 2.2.22.2 BellSouth shall provide power as requested by HTI to meet HTI's need for placement of equipment, interconnection, or provision of service. 2.2.22.3 BellSouth power equipment supporting HTI's equipment shall: Comply with applicable industry standards (e.g., BellCore, and NEBS or 2 2 22 3 1 manufacturer's equipment power requirement specifications for equipment installation, and physical equipment layout. Manufacturer's cabling practices shall comply with industry standards that meet or exceed Bellcore or NEBS standards: 2.2.22.3.2 Have redundant power feeds with physical diversity and battery back-up at parity with that provided for similar BellSouth equipment; 222233 DELETED 2.2.22.3.4 Provide central office ground, connected to a ground electrode located within the HTI collocated space, at a location which meets BellSouth

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standards and is jointly agreed upon by the parties at the initial planning meeting identified in Section 2.2.18 of this Attachment 3; and

- 2.2.22.3.5 Provide feeder capacity and quantity to support the ultimate equipment layout for HTI equipment in accordance with HTI's collocation request.
- 2.2.22.3.6 BellSouth shall, within ten (10) days of HTI's request:
- 2.2.22.3.6.1 Provide an installation sequence and access that will allow installation efforts in parallel without jeopardizing personnel safety or existing HTI services:
- 2.2.22.3.6.2 **DELETED**
- 2.2.22.3.6.3 Provide cabling that adheres to Bell Communication Research (BellCore) Network Equipment-Building System (NEBS) standards TR-EOP-000063; and
- 2.2.22.3.6.4 Provide Lock Out-Tag Out and other electrical safety procedures and devices in conformance with the most stringent of OSHA or industry guidelines.
- 2.2.22.3.6.5 BellSouth will provide HTI with written notification within ten (10) business days of any scheduled AC or DC power work or related activity in the collocated facility that will or might cause an outage or any type of power disruption to HTI equipment located in BellSouth facility. BellSouth shall provide HTI immediate notification by telephone of any emergency power activity that would impact HTI equipment.
- 2.3 BellSouth will permit HTI to inspect supporting documents for contracted work done on behalf of HTI (i.e., AIA document G702).
- 2.4 Physical Security Requirements
- 2.4.1 BellSouth agrees to use card access readers (door locks) or equivalent that will provide an audit trail of persons entering doors of facilities that have HTI equipment or equipment enclosures.
- 2.4.2 BellSouth will ensure that the building area which houses HTI equipment is adequately secured and monitored to prevent entry.

BellSouth will provide timely notification to the HTI personnel designated on HTI's enclosures of an actual or attempted security breach to space housing HTI equipment or HTI enclosures when BellSouth has actual knowledge of an actual or threatened security breach.

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2.5 Technical References - BellSouth agrees to comply with all BellCore and ANSI standards that are directly applicable to construct, supply and maintain collocation. Such standards include:

National Electrical Code (NEC)
NEBS Generic Engineering Requirements for System Assembly and Cable Distribution
Generic Requirements for -24, -48, -130, and -140 Volt Central Office Power Plant Rectifiers. (BellCore)

2.5.1	DELETED
2.5.2	DELETED
2.5.3	DELETED
2.5.4	DELETED
2.5.5	DELETED
2.5.6	DELETED
2.5.7	DELETED
2.5.8	DELETED
2.5.9	DELETED
2.5.10	DELETED
2.5.11	DELETED

3. Rights of Way (ROW), Conduits and Pole Attachments

BellSouth agrees to provide HTI, pursuant to 47 U.S.C. § 224, as amended by the Act, nondiscriminatory access to any pole, duct, conduit, or right-of-way owned or controlled by BellSouth pursuant to terms and conditions that are subsequently negotiated with BellSouth's Competitive Structure Provisioning Center.

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Provisioning and Ordering

Network Deployment

- BellSouth shall deploy and maintain network facilities in all its serving areas in every LATA from and after the Effective Date of this Agreement as necessary to provide on a timely basis each of the Elements thereof, as defined below, that BellSouth is required to offer to HTI pursuant to this Agreement.
- 1.2 Throughout the term of this Agreement, the quality of the technology, equipment, facilities, processes, and techniques (including, without limitation, such new architecture, equipment, facilities, and interfaces as BellSouth may deploy) that BellSouth provides to HTI under this Agreement shall be in accordance with standards or other measurements that are at least equal to the highest level that BellSouth provides or is required to provide by law and its own internal procedures.

2. General Provisioning Requirements

2.1 DELETED

2.2 Multiple individual Elements may be ordered by HTI from BellSouth on a single order without the need to have HTI send an order for each Element. Until Electronic Interfaces are in place to meet these requirements, HTI and BellSouth will use best efforts to develop an interim process by no later than April 1, 1997 to meet these requirements.

2.3 DELETED

- 2.4 BellSouth shall provide provisioning services to HTI equal to the provisioning services BellSouth provides to itself during normal business hours. If HTI requests that BellSouth perform provisioning services at times or on days other than as set forth in the preceding sentence, BellSouth and HTI shall mutually negotiate such provisioning including time interval and cost.
- 2.5 To ensure that HTI's Customers have the same ordering experience as BellSouth's Customers:
- 2.5.1 BellSouth shall provide HTI with the capability to have HTI's Customer orders input to and accepted by BellSouth's Service Order Systems outside of normal business hours, twenty-four (24) hours a day, seven (7) days a week, the same as BellSouth's Customer orders received outside of normal business orders are input and accepted.

- 2.5.2 Such ordering and provisioning capability shall be provided via an electronic interface, except for scheduled electronic interface downtime. Downtime shall not be scheduled during normal business hours and shall occur during times where systems experience minimum usage.
- 2.5.3 Until the Electronic Interface is available, BellSouth shall provide Local Carrier Service Center (LCSC) and Interexchange Carrier Service Center (ICSC) order entry capability to HTI.
- 2.6 BellSouth shall provide a Single Point of Contact (SPOC) for all ordering and provisioning contacts and order flow involved in the purchase and provisioning of the BellSouth's unbundled Elements or Combinations. BellSouth's SPOC shall provide to HTI a toll-free nation-wide telephone number (eperational from 8:00 a.m. to 5:00 p.m., Monday through Friday, within each respective continental U.S. time zone) which will be answered by capable staff trained to answer questions and resolve problems in connection with the provisioning of Elements or Combinations.
- 2.7 BellSouth will recognize HTI as the customer of record of all Elements or Combinations ordered by HTI and will send all notices, invoices and pertinent information directly to HTI.

3. Specific Provisioning Process Requirements

- 3.1 When HTI orders the Local Switching Elements, HTI may also obtain all technically available features and functions from the specified BellSouth switch (e.g., BRCS, CLASS, and LASS features).
- When requested by HTI, BellSouth will schedule installation appointments on a non-discriminatory basis with the BellSouth representative on the line with HTI's representative. When electronic interfaces are available, BellSouth will provide HTI with access to BellSouth's scheduling system. Prior to HTI sending BellSouth the first service order, HTI shall review the procedures that all BellSouth service technicians who provide installation service for HTI customers shall follow in all of their communications with HTI customers. At a minimum, the aforementioned procedures shall assume that: (1) BellSouth technicians shall provide repair service that is at least equal in quality to that provided to BellSouth customers; (2) trouble calls from HTI Customers shall receive response time priority that is at least equal to that of BellSouth customers and shall be handled on a "first come first served" basis regardless of whether the customer is an HTI Customer or a BellSouth customer.
- 3.3 Upon request from HTI, BellSouth will provide an intercept referral message in Tandem Switching Element that includes any new HTI telephone number, for the same duration as is provided to BellSouth end-users. This message shall

be approved by HTI and shall be similar in format to the intercept referral messages currently provided by BellSouth for its own end-users.

- 3.4 The Confirmation will provide HTI with the BellSouth order number, the negotiated service due date, telephone/circuit numbers (as applicable to the service), and the BellSouth service representative name and telephone number. Additional specific data may also be provided, if appropriate.
- 3.5 BellSouth will notify HTI using the same interface used by HTI to submit the service order request. When a BellSouth Technician is dispatched to complete the order, the service technician will contact HTI at the time of completion.
- 3.6 BellSouth will perform pre-service testing as per industry standards and will provide in writing, or electronically as directed by HTI, all test and turn-up results in support of the Elements or Combinations ordered by HTI. BellSouth shall provide these test results to HTI at the same time BellSouth provides its order-specific Order Completion.
- 3.7 As soon as identified, BellSouth shall notify HTI via electronic interface, when available, of Rejections/Errors contained in any of the data element(s) fields contained on any HTI Service Request. In the interim, BellSouth will notify HTI by telephone or facsimile of such Rejections/Errors.
- 3.8 As soon as identified, BellSouth shall notify HTI via electronic interface, when available (unless otherwise notified by HTI) of any instances when BellSouth's Committed Due Dates are in jeopardy of not being met by BellSouth on any element or feature contained in any order for Network Elements or Combinations. BellSouth shall concurrently indicate its new committed due date. In the interim, BellSouth will notify HTI by telephone or facsimile of such jeopardy.
- 3.9 BellSouth will perform testing with HTI to test Elements purchased by HTI.
- 3.10 DELETED
- 3.11 DELETED
- 3.12 HTI, where available, may choose between SCE/SMS AIN Access and SS7 AIN Access as designated on HTI's provisioning order.
- 3.13 BellSouth shall inform HTI if a customer action results in reassignment of an AIN trigger from an HTI AIN application to some other service provider's application. Such notification shall be completed within twenty-four (24) hours of the action via electronic interface as described in the Account Maintenance requirements specified in the Customer Billing section of this Agreement.

- 3.14 BellSouth shall maintain a database containing AIN trigger configuration and other data necessary to allow AIN service and feature interactions to be determined by HTI. BellSouth shall provide HTI the capability to make queries on a demand basis to such database. HTI recognizes certain combinations of triggers cannot be active simultaneously on a directory number. Information regarding such conflicts will be provided to HTI at the time of request.
- 3.15 BellSouth shall provision AIN triggers as requested by HTI on its provisioning order. BellSouth will not remove a trigger at the request of an end-user. If an end-user requests removal of a trigger that has been provisioned at the request of HTI, the end user will be referred to HTI.

4. General Ordering Requirements

- 4.1 Upon HTI's request through a Suspend/Restore Order, BellSouth shall suspend or restore the functionality of any Network Element. On a non-discriminatory basis as to other BellSouth customers, BellSouth shall implement any restoration priority on a per Network Element basis in a manner that conforms with HTI requested priorities.
- 4.2 BellSouth shall provide to HTI the functionality of blocking calls (e.g., 800, 900, 976 international calls) on an individual switching element basis.
- When ordering a Local Switching Element, HTI may order from BellSouth separate interLATA and intraLATA capabilities (i.e., 2 PICs where available).
- Unless otherwise directed by HTI, when HTI orders an Element, all preassigned trunk or telephone numbers currently associated with that Network Element shall be retained without loss of feature capability and without loss of associated functions including, but not limited to, Directory Assistance and 911/E911 capability, capability where such features or functions exist.
- 4.5 Unless requested to do so by HTI, BellSouth will not require HTI when purchasing any Network Element offered pursuant to this Agreement, to purchase individually the sub-elements of such Network Elements.

5. Ordering Interfaces

- 5.1 BellSouth shall provide real time electronic interfaces ("EI") for transferring and receiving Service Orders and Provisioning data as specified in Section 16.8 of Attachment 2 and in Section 28 of the General Terms and Conditions.
- 5.2 BellSouth shall provide real time provisioning data via an electronic interface as described in item 5.1 of this section. Provisioning data shall include

providing HTI the ability: (i) to obtain information on all features and services available, in end-office where customer is provisioned; (ii) to establish if a service call is needed to install the line or service; (iii) to determine the due date and provide information regarding service dispatch/installation schedule, if applicable; (iv) ability to provide an assigned telephone number; and (v) ability to obtain a customer profile, including customer name, billing and residence address, billed telephone numbers, and identification of features and services subscribed to by customer as set forth in Section 28 of the General Terms and Conditions.

5.2.1	DELETED

- 5.2.2 DELETED
- 5.2.3 DELETED
- 5.2.4 DELETED
- 5.2.5 DELETED
- 5.2.6 DELETED
- 527 DELETED
- 5.2.8 DELETED
- 5.2.9 DELETED
- 5.2.10 DELETED
- 5.3 BellSouth shall provide the ability to enter a service order via Electronic Interface as described in Subsection 5.1 of this Section. The service order shall provide HTI the ability to: (i) establish service and order desired features; (ii) establish the appropriate directory listing; and (iii) order intraLATA toll and interLATA toll when applicable in a single, unified order.

6. BellSouth Provision of Information

- 6.1 BellSouth shall provide to HTI with the initial services request:
- 6.1.1 DELETED
- 6.1.2 DELETED
- 6.1.3 When available with the normal request process, all engineering design and layout information for each network Element;

- 6.1.4 A listing of all technically available functionalities for each Element; and
- 6.1.5 Advanced information on the details and requirement for planning and implementation of NPA splits.
- 6.2 DELETED
- Order Format and Data Elements for Individual Network Elements
- 7.1 HTI may purchase Network Elements individually and may at its own option, combine said elements in any manner it chooses. BellSouth will deliver said individual Elements at any technically feasible interconnection point, e.g. unbundled loops to HTI collocation spaces, at no additional charge. Software modifications, e.g., switch translations, necessary for the proper functioning of HTI 's combined BellSouth Network Elements will be provided by BellSouth at no additional charge.
- 7.2 In ordering Network Elements, HTI will utilize standard industry order formats and data elements developed by the Ordering and Billing Forum (OBF). Until such industry standard order formats and data elements are finalized for all Network Elements, HTI and BellSouth will use best efforts to develop an interim process to meet these requirements. Such interim process will utilize the jointly developed EDI ordering interface, the existing ASR ordering interface, and manual intervention as required.
- DELETED
- Performance Requirements
- 9.1 HTI will specify on each order its Desired Due Date (DDD) for completion of that particular order. BellSouth shall not complete the order prior to DDD unless early turn-up is needed for testing purposes. BellSouth will notify HTI if the DDD cannot be met. BellSouth will make best effort to meet the DDD for Network Element requests.
- 9.2 BellSouth and HTI shall agree upon a minimum interval for the provisioning of each Network Element and appropriate expedite and escalation processes as part of a workcenter interface agreement.
- 9.3 DELETED
- 9.4 DELETED

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MAINTENANCE

- 1. BellSouth shall provide repair, maintenance, testing, and surveillance for all Local Services and Unbundled Network Elements in accordance with the terms and conditions of this Attachment. BellSouth will provide HTI with at least the capability to provide an HTI customer the same experience as BellSouth provides its own customers. The capability provided to HTI by BellSouth shall be in accordance with standards or other measurements that are at least equal to the level that BellSouth provides or is required to provide by law and its own internal procedures.
- 2. BellSouth shall use its best efforts in working with HTI to meet maintenance standards for all Local Services and Unbundled Network Elements ordered under this Agreement, as specified in Section 8 of this Attachment. Where applicable to a particular Local Service or an Unbundled Network Element, such maintenance standards shall include, without limitation, standards for testing, network management, call gapping, and notification of upgrades as they become available.
- 3. BellSouth shall cooperate with HTI through a joint implementation team to establish an Electronic Interface for gateway or automated access by HTI to BellSouth's maintenance systems and databases in order to allow HTI maintenance personnel and customer service representatives to perform the following functions for HTI Customers: (i) enter a new customer trouble ticket into the BellSouth maintenance system for an HTI Customer: (ii) retrieve and track current status on all HTI Customer repair tickets; (iii) receive "estimated time to repair" ("ETTR") on a real-time basis; (iv) initiate a technician dispatch; (v) receive timely notification in the event a repair person is unable to be present for, or anticipates missing, a scheduled repair opportunity; (vi) retrieve all applicable time and material charges at the time of ticket closure (itemized by time spent, price of materials used, procedures employed, amounts incurred in each such category, and total by customer, per event); and (vii) perform an electronic test at the time of ticket entry and provide test results to HTI.
- 3.1 BellSouth agrees to use its best efforts to develop and implement as soon as is practicable, but no later than the dates specified in Attachment 15, the electronic interface described above into BellSouth's systems in a manner to provide HTI with the capability to provide an HTI Customer the same maintenance service as BellSouth provides its own customers.
- 3.1.1 Until an electronic interface is developed for entering repair tickets directly into BellSouth's maintenance system, BellSouth agrees that HTI will report troubles directly to the appropriate BellSouth Repair Center.

3.1.2 DELETED

3.1.3 DELETED

- 3.1.4 Until an electronic interface exists, BellSouth will provide HTI the ability to obtain the status on open maintenance trouble tickets via telephone.
- 3.1.5 Until an electronic interface exists, BellSouth agrees that HTI may transmit repair calls to BellSouth's repair bureau and request dispatching a BellSouth technician to an HTI customer's premises by telephone. In this interim process, the following standards will apply:
- 3.1.5.1 BellSouth agrees to provide the status upon HTI's request, in an expedient manner. Standards for this status notification will be documented on the Workcenter Interface Agreement.
- 3.1.5.2 Upon request by HTI, BellSouth agrees to provide the status on open maintenance trouble tickets proactively for HTI's large business customers. On a non-discriminatory basis as to other BellSouth customers, BellSouth agrees that HTI's large business customers' trouble reports will be given priority handling as is done with BellSouth's large business customers' trouble reports. This priority handling shall include immediate expedite and proactive escalation procedures. Guidelines for status and priority handling for large business customers will be documented in the workcenter interface agreement.
- 3.1.6 Until an electronic interface exists, BellSouth agrees that HTI may call BellSouth to verify central office features and functions when reporting trouble. BellSouth agrees to work with HTI on the initial trouble report to isolate the cause of the trouble and where possible, resolve the feature/function related trouble at that time.
- 3.1.7 BellSouth agrees to advise HTI of any central office failure that is known at the time of any inquiry or trouble report. Working with HTI, BellSouth agrees to use its best efforts to implement a process by March 31, 1997, to provide HTI with notification of switch failures.
- 3.1.8 BellSouth agrees to provide an Estimated Time To Repair (ETTR) on all trouble reports, an appointment time or a commitment time, as appropriate.
- 3.1.9 Prior to HTI sending BellSouth the first service order, BellSouth agrees to develop, with HTI's cooperation, a mutually acceptable Workcenter Interface Agreement to document the methods and procedures for the interim interface.
- 3.1.10 Prior to HTI sending BellSouth the first service order, HTI shall review the procedures that all BellSouth service technicians who provide repair service for HTI Customers shall follow in all their communications with HTI Customers. At a minimum, the aforementioned procedures shall assume that: (1)

BellSouth technicians shall provide repair service that is at least equal in quality to that provided to BellSouth customers; (2) trouble calls from HTI Customers shall receive response time priority that is at least equal to that of BellSouth customers and shall be handled on a "first come first served" basis regardless of whether the customer is an HTI Customer or a BellSouth customer.

- 4. BellSouth shall provide HTI with the same scheduled and non-scheduled maintenance, including, without limitation, required and recommended maintenance intervals and procedures, for all Local Services and Unbundled Network Elements provided to HTI under this Agreement that it currently provides for the maintenance of its own network. Procedures for scheduled and non-scheduled maintenance will be documented in the Workcenter Interface Agreement.
- 4.1 BellSouth shall negotiate the release (authorization to interrupt service) of any Unbundled Network Elements or Large Business customers' service with HTI prior to any scheduled maintenance activity which may impact those services.
- 4.2 For services provided through resale, BellSouth agrees to provide HTI with scheduled maintenance for residence and small business customers consistent with that which it provides its own customers. Central Office conversions shall be publicized through the media and will occur after midnight and before 4 A.M.
- DELETED
- DELETED
- On misdirected calls BellSouth and HTI shall advise customers to contact their Local Service Provider and will provide the customer with the Local Service Provider contact number.
- 8. BellSouth repair bureau shall conform to the following performance and service quality standards when providing repair and maintenance to HTI and HTI Customers under this Agreement:
- 8.1 If service is provided to HTI Customers before an Electronic Interface is established between HTI and BellSouth, HTI will transmit repair calls to the BellSouth repair bureau by telephone. In such event, the speed of answer time for HTI will be at least equal to that for BellSouth Customers.
- 8.2 The BellSouth repair bureau including the Electronic Interface to be established pursuant to Section 3 of this Attachment, shall be on-line and operational twenty-four (24) hours per day, seven (7) days per week except for scheduled electronic interface downtime.

- 8.3 DELETED
- 8.4 DELETED
- 8.5 BellSouth's response time to emergency network outages shall be as set forth in the Disaster Recovery Plan. Notwithstanding the above, BellSouth's response time shall be at least equal to the response time BellSouth provides to itself and BellSouth's Customers.
- 8.6 DELETED
- 8.7 DELETED
- 8.8 DELETED
- 8.9 DELETED
- 8.10 BellSouth's repair service centers supporting HTI as a Reseller will be the same centers that support BellSouth's end users and, therefore, HTI will be supported by BellSouth personnel with the same level of training or certification as those supporting BellSouth's end-users. The HTI ACAC, which supports unbundled network elements excluding BellSouth's port, is certified.
- 8.11 BellSouth will provide the telephone number for the duty supervisor in the repair center as the first point of escalation. In the event that further escalation is necessary, that supervisor will be responsible for contacting the next escalation on behalf of HTI. At each escalation hand off, BellSouth will provide HTI with a proactive status report. This person is also responsible for providing the name and telephone number of the next level in the escalation procedure, if requested.

8.12 DELETED

Maintenance charges for premises visits by BellSouth technicians shall be billed by HTI to its Customer, and not by BellSouth. The BellSouth technician shall, (i) contact HTI for authorization, (ii) provide an estimate of time and materials required, (iii) quote time and charges at the completion of the repair visit, (iv) notify HTI if a subsequent visit is required. BellSouth will bill maintenance charges for premises visits to HTI.

8.13 When maintenance charges are incurred during premises visits, the BellSouth technician shall present the Customer with a form that is consistent with Section 19 of the General Terms and Conditions of this Agreement detailing the time spent, the materials used, and an indication that the trouble has either been resolved, or that additional work will be necessary, in which case, BellSouth technician shall make an additional appointment with the Customer. The BellSouth technician shall obtain the Customer's signature upon said

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form, and then use the signed form to input maintenance charges into BellSouth's database (accessible by way of the Electronic Interface established pursuant to Section 3 preceding).

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CONNECTIVITY BILLING AND RECORDING

1. General

This Section describes the requirements for BellSouth to bill and record all charges HTI incurs for purchasing Local Services for resale and for Network Elements, and to provide Meet Point Billing and Mutual Compensation.

2. Billable Information And Charges

BellSouth will bill and record in accordance with this Agreement those charges HTI incurs as a result of HTI purchasing from BellSouth Network Elements, and Local Services, as set forth in this Agreement. BellSouth will bill charges for interconnection and charges for unbundled network elements, with the exception of the unbundled ports through CABS or in the CABS format. BellSouth will format each bill in CABS or in CABS format in accordance with CABS standards and specifications. As an interim process, the Parties have agreed to specific elements of CRIS billing. Those elements are named in Exhibit A attached hereto and incorporated herein by this reference. Each bill shall set forth the quantity and description of each such Network Element, or Local Service provided and billed to HTI. All charges billed to HTI will indicate the state from which such charges were incurred except in cross boundary state situations. A listing of the current cross state boundary exchanges has been provided to HTI.

2.1 As an interim process, BellSouth will provide HTI with bills in the CRIS/CLUB format via paper or other mutually agreed upon medium for those services purchased by HTI for resale and for the billing of the unbundled port and loop/port combination in accordance with the specifications and requirements set forth in Exhibit A to this Attachment for no more than one hundred and eighty (180) days after the Effective Date of this Agreement. After that time, BellSouth shall provide bills using only CABS or the CABS format as outlined in this Agreement.

HTI and BellSouth will work together in a cooperative effort with the OBF to establish a single billing system and applicable standards. Once the billing standards/system are defined, BellSouth and HTI will mutually agree when the standards/system will be implemented.

2.2 BellSouth shall provide HTI a monthly bill that includes all charges incurred by and credits and/or adjustments due to HTI for those Network Elements, ORDER NO. PSC-98-0777-FOF-TP DOCKET NO. 980309-TP PAGE 210

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thereof, or Local Services ordered, established, utilized, discontinued or performed pursuant to this Agreement. Each bill provided by BellSouth to HTI shall include: (1) all non-usage sensitive charges incurred for the period beginning with the day after the current bill date and extending to, and including, the next bill date; (2) any known unbilled non-usage sensitive charges for prior periods; (3) unbilled usage sensitive charges for the period beginning with the last bill date and extending through the current bill date; (4) any known unbilled usage sensitive charges for prior periods; and (5) any known unbilled adjustments.

- 2.3 The Bill Date, as defined herein, must be present on each bill transmitted by BellSouth to HTI, must be a valid calendar date, and not more than one (1) year old. Bills shall not be rendered for any charges which are incurred under this Agreement on or before one (1) year preceding the Bill Date, except as otherwise permitted by law. In addition, on each bill where "Jurisdiction" is identified, local and local toll charges shall be identified as "Local" and not as interstate, interstate/interLATA, intrastate, or intrastate/intraLATA. BellSouth will provide from and through dates for charges rendered on all bills. In addition, BellSouth will separately identify business charges from residence charges, as appropriate.
- 2.4 BellSouth shall bill HTI for each Network Element, combination thereof, or Local Service, supplied by BellSouth to HTI pursuant to this Agreement at the rates set forth in this Agreement. BellSouth will bill HTI based on the actual charges incurred, provided, however, for those usage based charges where actual charge information is not determinable by BellSouth because the jurisdiction (i.e., interstate, interstate/interLATA, intrastate, intrastate/intraLATA, local) of the traffic is unidentifiable, the Parties will jointly develop a process to determine the appropriate charges. Measurement of usage-based charges shall be in actual conversation seconds. The total conversation seconds per chargeable traffic types will be totaled for the entire monthly bill cycle and then rounded to the next whole minute.

2.5 DELETED

2.6 Each Party shall provide the other Party, at no additional charge, a contact person for the handling of any billing questions or problems that may arise during the implementation and performance of the terms and conditions of this Attachment. Billing questions subsequent to implementation will be directed to the billing specialist in the Local Carrier Service Center (LCSC) for CRIS billing and through the Interexchange Carrier Service Center (ICSC) for CABS related issues.

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3. Meet Point Billing

- 3.1 Where appropriate for unbundled network elements, HTI and BellSouth will establish meet-point billing ("MPB") arrangements in accordance with the Meet-Point Billing guidelines adopted by and contained in the OBF's MECAB and MECOD documents, except as modified herein. Both Parties will use their best reasonable efforts, individually and collectively, to maintain provisions in their respective federal and state access tariffs, and/or provisions within the National Exchange Carrier Association ("NECA") Tariff No. 4, or any successor tariff to reflect the MPB arrangements identified in this Agreement, in MECAB and in MECOD.
- 3.2 HTI and BellSouth will implement the "Multiple Bill/Multiple Tariff" option in order to bill any interexchange carrier ("IXC") for that portion of the network elements provided by HTI or BellSouth. For all traffic carried over the MPB arrangement, HTI and BellSouth shall bill each other all applicable elements at the rates specified in this Agreement.
- 3.3 BellSouth shall provide to HTI the billing name, billing address, and carrier identification code ("CIC") of the IXCs that may utilize any portion of HTI's network in an HTI/BellSouth MPB arrangement in order to comply with the MPB Notification process as outlined in the MECAB document. Such information shall be provided to HTI in the format and via the medium that the Parties agree. If BellSouth does not have a CIC for any IXC that will utilize a portion of HTI's network in an HTI/BellSouth MPB arrangement, and for whom BellSouth must supply to HTI MPB billing information, BellSouth agrees that it will assist such carrier in obtaining a CIC expeditiously. Until such carrier has obtained a CIC, BellSouth will submit BellSouth's CIC on those MPB records provided to HTI for MPB. BellSouth understands and agrees that it will be solely responsible for obtaining any reimbursements from those carriers who have utilized the jointly provided networks of BellSouth and HTI.
- 3.4 BellSouth and HTI agree that in an MPB arrangement where one Party provides local transport and the other Party provides the end office switching, the Party who provides the end office switching is entitled to bill any residual interconnection charges ("RIC") and common carrier line ("CCL") charges associated with the traffic. The Parties further agree that in those MPB situations where one Party sub-tends the other Party's access tandem, the Party providing the access tandem is only entitled to bill the access tandem fee and any associated local transport charges. The Parties also agree that

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the Party who provides the end office switching is entitled to bill end office switching fees, local transport charges, RIC and CCL charges, as appropriate, and such other applicable charges.

- 3.5 BellSouth and HTI will record and transmit MPB information in accordance with the standards and in the format set forth in this Attachment. BellSouth and HTI will coordinate and exchange the billing account reference ("BAR") and billing account cross reference ("BACR") numbers for the MPB arrangements described in this Agreement. Each Party will notify the other if the level of billing or other BAR/BACR elements change, sesulting in a new BAR/BACR number.
- 3.6 If MPB data is not processed and delivered by either BellSouth or HTI and sent to the other Party within ten (10) days of their recording and in turn such Party is unable to bill the IXC for the appropriate charges, the Party who failed to deliver the data will be held liable for the amount of the unbillable charges. When the subsequent billing company ("SBC") is the recording company, they shall provide the initial billing company ("IBC") the detail billing records on a weekly basis (within five (5) days). If the IBC is the recording company, detail billing record exchange is not necessary. The IBC shall provide the SBC the summary billing records within ten (10) days from the IBC bill date. The Party who failed to deliver the data will be held liable for the amount of the unbillable charges.
- 3.7 If MPB data is not submitted within ten (10) days of their recording or is not in the proper format as set forth in this Agreement, and if as a result the other Party is delayed in billing the IXC for the appropriate charges it incurs, the delaying Party shall pay the other Party a late MPB data delivery charge which will be the total amount of the delayed charges times the highest interest rate (in decimal value) which may be levied by law for commercial transactions, compounded daily for the number of days from the date the MPB charges should have been received to and including the date the MPB charge information is actually received.
- 3.8 Errors in MPB data exchanged by the Parties may be discovered by HTI, BellSouth or the billable IXC. Both HTI and BellSouth agree to provide the other Party with notification of any discovered errors within two (2) business days of the discovery. The other Party shall correct the error within eight (8) business days of notification and resubmit the data. In the event the errors cannot be corrected within the time period specified above, the erroneous data shall be considered lost. If MPB data is lost due to incorrectable errors or otherwise, the Parties shall follow the procedures set forth in the Customer

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Billing Data Attachment of this Agreement and compensate the other for the lost MPB billing data.

- 3.9 In the event HTI purchases from BellSouth Network Elements, or Combination thereof, in a LATA other than the LATA to or from which the MPB services are homed and in which BellSouth operates an access tandem, BellSouth shall, except in instances of capacity limitations, permit and enable HTI to sub-tend the BellSouth access tandem switch(es) nearest to the HTI rating point(s) associated with the NPA-NXX(s) to/from which the MPB services are homed. In instances of capacity limitation at a given access tandem switch, HTI shall be allowed to sub-tend the next-nearest BellSouth access tandem switch in which sufficient capacity is available. The MPB percentages for each new rating point/access tandem pair shall be calculated in accordance with MECAB and MECOD.
- 3.10 Neither HTI nor BellSouth will charge the other for the services rendered, or for information provided pursuant to Section 4 of this Attachment except those MPB charges specifically set forth herein. Both Parties will provide the other a single point of contact to handle any MPB questions.

4. Collocation

When HTI collocates with BellSouth in BellSouth's facility as described in this Agreement, capital expenditures (e.g., costs associated with building the "cage"), shall not be included in the bill provided to HTI pursuant to this Attachment. All such capital expenses shall be given a unique BAN (as defined in Section 7, below) and invoice number. All invoices for capital expenses shall be sent to the location specified by HTI for payment. All other non-capital recurring collocation expenses shall be billed to HTI in accordance with this Agreement. The CABS Billing Output Specifications ("BOS") documents provide the guidelines on how to bill the charges associated with collocation. The bill label for those collocation charges shall be entitled "Expanded Interconnection Service." For those nonmechanized bills, the bill label for non-capital recurring collocation expenses shall be entitled "Collocation".

5. Mutual Compensation

5.1 The Parties shall bill each other reciprocal compensation in accordance with the standards set forth in this Agreement for Local Traffic terminated to the other Party's customer. Such Local Traffic shall be recorded and transmitted to HTI and BellSouth in accordance with this Attachment. When an HTI

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Customer originates traffic and HTI sends it to BellSouth for termination, HTI will determine whether the traffic is local or intra LATA toll. When a BellSouth Customer originates traffic and BellSouth sends it to HTI for termination, BellSouth will determine whether the traffic is local or intraLATA toll. Each Party will provide the other with information that will allow it to distinguish local from intraLATA toll traffic. At a minimum, each Party shall utilize NXXs in such a way that the other Party shall be able to distinguish local from intraLATA toll traffic. When HTI interconnects with BellSouth's network for the purpose of completing local and intraLATA toll traffic, HTI will, at its option, interconnect at either the tandem or end office switch to complete such calls paying local interconnection rates for its customers' local calls and switched access rates for its customers' intraLATA toll calls. Such interconnection will be ordered as needed by HTI to deliver such local and intraLATA toll calls. Further, the Local Traffic exchanged pursuant to this Attachment shall be measured in billing minutes of use and shall be in actual conversation seconds. The total conversation seconds per chargeable traffic type will be totaled for the entire monthly billing cycle and then rounded to the next whole conversation minute. Reciprocal compensation for the termination of this Local Traffic shall be in accordance with Part IV to this Agreement.

6. Local Number Portability

6.1 DELETED

6.2 When an IXC terminates an interLATA or IntraLATA toll call to an HTI local exchange customer whose telephone number has been ported from BellSouth, the Parties agree that HTI shall receive those IXC access charges associated with end office switching, local transport, RIC and CCL, as appropriate. BellSouth shall receive any access tandem fees, dedicated and common transport charges, to the extent provided by BellSouth, and any INP fees (i.e., such as RCF charges) set forth in this Agreement. When a call for which access charges are not applicable is terminated to an HTI local exchange customer whose telephone number has been ported from BellSouth, and is terminated on HTI's own switch, the Parties agree that the mutual compensation arrangements described in this Agreement shall apply.

7. Issuance of Bills - General

7.1 BellSouth and HTI will issue all bills in accordance with the terms and conditions set forth in this Section. BellSouth and HTI will establish monthly billing dates ("Bill Date") for each Billing Account Number ("BAN"), as further

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defined in the CABS document or CRIS elements set forth in Exhibit A as appropriate. On bills BellSouth renders to HTI, BANs shall be 13 character alpha/numeric and there shall only be one BAN per Revenue Accounting Office ("RAO"). The Bill Date shall be the same day month to month for all BANs, except that the 4th, 7th or 13th of each month will not be used as a Bill Date for bills BellSouth renders to HTI. HTI will provide one (1) BAN per state and the bill date will be the same day month to month for all BANs. Each BAN shall remain constant from month to month, unless changed as agreed to by the Parties. Each Party shall provide the other Party at least thirty (30) calendar days written notice prior to changing, adding or deleting a BAN. The Parties will provide one billing invoice associated with each BAN. Each invoice must contain an invoice number (which will vary from month to month). The bill date is the only varying invoice number available on the Resale bill. On each bill associated with a BAN, the appropriate invoice number and the charges contained on such invoice must be reflected. All bills must be received by the other Party no later than ten (10) calendar days from Bill Date and at least twenty (20) calendar days prior to the payment due date (as described in this Attachment), whichever is earlier. Any bill received on a Saturday, Sunday or a legally observed as set forth in Exhibit B of the Attachment 6 will be deemed received the next business day. If either Party fails to receive billing data and information within the time period specified above, the payment due date will be extended by the number of days the bill is late.

- 7.2 BellSouth and HTI shall issue all CABS bills or bills in CABS format containing such billing data and information in accordance with CABS Version 26.0, Issue 4, or such later versions of CABS as are published by BellCore, or its successor, except that if the Parties enter into a meet-point billing arrangement, such billing data and information shall also conform to the standards set forth in the MECAB document, or such later versions as are adopted by BellCore, or its successor. To the extent that there are no CABS or MECAB standards governing the formatting of certain data, such data shall be issued in the format specified by HTI. Consistent with Section 2.1.1 of this Attachment 6, BellSouth may issue HTI Resale and unbundled port Connectivity bills in CRIS/CLUB format as provided herein for no more than one hundred eighty (180) days after the Effective Date of this Agreement.
- 7.3 Within thirty (30) days of finalizing the chosen billing media, each Party will provide the other Party written notice of which bills are to be deemed the official bills to assist the Parties in resolving any conflicts that may arise between the official bills and other bills received via a different media which purportedly contain the same charges as are on the official bill. If either Party

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requests an additional copy(ies) of a bill, such Party shall pay the other Party a reasonable fee per additional bill copy, unless such copy was requested due to errors, omissions, or corrections or the failure of the transmission to comply with the specifications set forth in this Agreement.

7.4 When sending bills via electronic transmission, to avoid transmission failures or the receipt of billing information that cannot be processed, the Parties shall provide each other with their respective process specifications. Each Party shall comply with the mutually acceptable billing processing specifications of the other. HTI and BellSouth shall provide each other reasonable notice if a billing transmission is received that does not meet such Party's specifications or that such Party cannot process. Such transmission shall be corrected and resubmitted to the other Party, at the resubmitting Party's sole expense, in a form that can be processed. The payment due date for such resubmitted transmissions will be twenty (20) days from the date that the transmission is received in a form that can be processed and that meets the specifications set forth in this Attachment.

8. Electronic Transmissions

- 8.1 BellSouth and HTI agree that each Party will transmit billing information and data in the appropriate CABS format electronically via CONNECT:Direct (formerly known as Network Data Mover) to the other Party at the location specified by such Party. The Parties agree that a T1.5 or 56kb circuit to Gateway for CONNECT:Direct is required. HTI data centers will be responsible for originating the calls for data transmission via switched 56kb or T1.5 lines. If BellSouth has an established CONNECT:Direct link with HTI, that link can be used for data transmission if the location and applications are the same for the existing link. Otherwise, a new link for data transmission must be established. BellSouth must provide HTI/Alpharetta its CONNECT: Direct Node ID and corresponding VTAM APPL ID before the first transmission of data via CONNECT:Direct. HTI's CONNECT:Direct Node ID is "NDMATTA4" and VTAM APPL ID is "NDMATTA4" and must be included in BellSouth's CONNECT: Direct software. HTI will supply to BellSouth its RACF ID and password before the first transmission of data via CONNECT:Direct. Any changes to either Party's CONNECT: Direct Node ID must be sent to the other Party no later than twenty-one (21) calendar days before the changes take effect.
- 8.2 The following dataset format shall be used as applicable for those charges transmitted via CONNECT:Direct in CABS format:

Production Dataset

AF25.AXXXXYYY.AZZZ.DDDEE	Production Dataset Name
AF25 =	Job Naming Convention
AXXXX =	Numeric Company Code
YYY =	LEC Remote
A <u>ZZZ</u> =	RAO (Revenue Accounting Office)
DDD =	BDT (Billing Data Tape with or without CSR)
	Or
	CSR (Customer Service Record)
EE =	01 thru 31 (Bill Period) (optional)
	or
	GA (US Postal-State Code)

Test Dataset

AF25.ATEST.AXXXX.DDD	Test Dataset Name
AF25.ATEST =	Job Naming Convention
AXXXX =	Numeric Company Code
DDD =	BDT (Billing Data Tape with or without CSR)
	Or
	CSR (Customer Service Record)

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8.3 DELETED

9. Tape or Paper Transmissions

9.1 In the event either Party does not temporarily have the ability to send or receive data via CONNECT:Direct, that Party will transmit billing information to the other party via magnetic tape or paper, as agreed to by HTI and BellSouth. Billing information and data contained on magnetic tapes or paper for payment shall be sent to the Parties at the following locations. The Parties acknowledge that all tapes transmitted to the other Party via U.S. Mail or Overnight Delivery and which contain billing data will not be returned to the sending Party.

TO HTI:

Tape Transmissions via U.S. Mail:	нті
Tape Transmissions via Overnight Delivery:	нті

Paper Transmissions via U.S. Mail:	нті

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Paper Transmissions via Overnight Delivery:	нті	
		4

TO BellSouth:

Attn:	
Attn:	

- 9.2 Each Party will adhere to the tape packaging requirements set forth in this subsection. Where magnetic tape shipping containers are transported in freight compartments, adequate magnetic field protection shall be provided by keeping a typical 6-inch distance from any magnetic field generating device (except a magnetron-tape device). The Parties agree that they will only use those shipping containers that contain internal insulation to prevent damage. Each Party will clearly mark on the outside of each shipping container its name, contact and return address. Each Party further agrees that it will not ship any Connectivity Billing tapes in tape canisters.
- 9.3 All billing data transmitted via tape must be provided on a cartridge (cassette) tape and must be of high quality, conform to the Parties' record and label standards, 9-track, odd parity, 6250 BPI, group coded recording mode and extended binary-coded decimal interchange code ("EBCDIC"). Each reel of tape must be 100% tested at 20% or better "clipping" level with full width certification and permanent error free at final inspection. HTI reserves the right to destroy a tape that has been determined to have unrecoverable

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- errors. HTI also reserves the right to replace a tape with one of equal or better quality.
- 9.4 Billing data tapes shall have the following record and label standards. The dataset serial number on the first header record of an IBM standard tape label also shall have the following format.

	CABS BOS	
Record Length	225 bytes (fixed length)	
Blocking factor	84 records per block	
Block size	18,900 bytes per block	
Labels	Standard IBM Operating System	

- 9.5 A single 6-digit serial number must appear on the external (flat) surface of the tape for visual identification. This number shall also appear in the "dataset serial number field" of the first header record of the IBM standard tape label. This serial number shall consist of the character "V" followed by the reporting location's four digit Originating Company Code and a numeric character chosen by the sending company. The external and internal label shall be the same. The dataset name shall appear on the flat side of the reel and also in the "data set name field" on the first header record of the IBM standard tape label. BellSouth's name, address, and contact shall appear on the flat side of the cartridge or reel.
- 9.6 Tape labels shall conform to IBM OS/VS Operating System Standards contained in the IBM Standard Labels Manual (GC26-3795-3). IBM standard labels are 80-character records recorded in EBCDIC, odd parity. The first four characters identify the labels:

Volume 1	Volume label
HDR1 and HDR2	Data set header labels
EOV1 and EOV2	Data set trailer labels (end-of-volume for multi-reel files)

EOE1 and EOE2	Data set trailer labels (end-of-data-set)	7
EOFT and EOF2	Data set trailer labels (end-of-data-set)	1

The HDR1, EOV1, and EOF1 labels use the same format and the HDR2, EOV2, and EOF2 labels use the same format.

9.7 The Standard Volume Label Format (Vol. 1) is described below:

FIELD NAME	CONTENTS
Label Identifier (3 bytes)	The characters "VOL" identify this label as a volume label.
Label Number (1 byte)	The relative position of this label within a set of labels of the same type; it is always a 1 for the IBM standard volume label.
Volume Serial Number (6 bytes)	A unique identification code, normally numeric characters (000001-999999), but may be alpha-numeric; if fewer than 6 characters, must be left-justified. This same code should also appear on the external (flat) surface of the volume for visual identification.
Reserved (1 byte)	Reserved for future use - should be recorded as blanks.
VTOC Pointer (10 bytes)	Direct-access volumes only. This field is not used for tape volumes and should be recorded as blanks.
Reserved (10 bytes)	Reserved for future use - should be recorded as blanks.
Owner Name and Address Code(10 bytes)	Indicates a specific customer, person, installation, department, etc., to which the volume belongs. Any code or name is acceptable.
Reserved (29 bytes)	Reserved for future use - should be recorded as blanks.

9.8 The IBM Standard Dataset Label 1 Format (HDR1, EOV1, EOF1) is described below:

FIELD NAME	CONTENTS
Label Identifier	Three characters that identify the label are:
(3 bytes)	HDR Header label (at the beginning of a dataset)
	EOV Trailer label (at the end of a tape volume, when the dataset continues on another volume)
	EOF Trailer label (at the end of a dataset).
Label Number (1 byte)	The relative position of this label within a set of labels of the same type; it is always a 1 for dataset label 1.
Dataset Identifier	The rightmost 17 bytes of the dataset name (includes GnnnnVnn if the dataset is part of a generation data group). If the
(17 bytes)	dataset is part of a generation data group). If the dataset name is less than 17 bytes, it is left-justified and the remainder of this field is padded with blanks.
Dataset Serial Number (6 bytes)	The volume serial number of the tape volume containing the dataset. For multi-volume datasets, this field contains the serial number of the first volume of the aggregate created at the same time. The serial number can be any 6 alphanumeric characters, normally numeric (000001-999999). If the number of characters is fewer than 6 characters, the code must be left-justified and followed by blanks.
Volume Sequence Number (4 bytes)	A number (0001-9999) that indicates the order of volume within the multi-volume group created at the same time. This number is always 0001 for a single volume dataset.
Dataset Sequence Number (4 bytes)	A number (0001-9999) that indicates the relative position of the dataset within a multi-dataset group. This number is always 0001 for a single dataset organization.
Generation Number (4 bytes)	If the dataset is part of a generation data group, this field contains a number from 0001 to 9999 indicating the absolute generation number (the first generation is recorded as 0001). If the dataset is not part of a generation data group, this field contains blanks.

FIELD NAME	CONTENTS
Version Number Of Generation (2 bytes)	If the dataset is part of a generation data group, this field a number from 00 to 99 indicating the version number of the generation (the first version is recorded as 00). If the dataset is not part of a generation data group, this field contains blanks.
Creation Date (6 bytes)	Year and day of the year when the dataset was created. The date is shown in the format byyddd where: b = blank
	yy = year(00-99)
	ddd = day(001-366)
Expiration Date (6 bytes)	Year and day of the year when the dataset may be scratched or overwritten. The data is shown in the format byyddd where:
	b = blank
	yy = year (00-99)
	ddd = day (001-366)
Dataset Security (1 byte)	A code number indicating the security status of the dataset is as follows:
	0 No password protection
	Password protection Additional identification of the dataset is required before it can be read, written, or deleted (ignored if volume is RACF-defined)
	Password protection Additional identification of the dataset is required before it can be read, written, or deleted (ignored if volume is RACF-defined).
Block Count (6 bytes)	This field in the trailer label shows the number of data blocks in the dataset on the current volume. This field in the header label is always zeros (000000).

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FIELD NAME	CONTENTS
System Code (13 bytes)	Unique code that identifies the system.
Reserved (7 bytes)	Reserved for future use - should be recorded as blanks.

9.9 The IBM Standard Dataset Label 2 Format (HDR2, EOV2, EOF2) always follows dataset label 1 and contains additional information about the associated dataset as described below:

Label Identifier (3 bytes)	Three characters that identify the label are as follows:	
	HDR Header label (at the beginning of a dataset)	
	EOV Trailer label (at the end of a tape volume, when	
	the dataset continues on another volume)	
	EOF Trailer label (at the end of a dataset).	
Label Number (1 byte)	The relative position of this label within a set of labels of the same type; it is always a 2 for dataset label 2.	
Record Format (1 byte)	An alphabetic character that indicates the format of records in the associated dataset as follows:	
	F Fixed length	
	V Variable length	
	U Undefined length.	

Block Length (5 bytes)	A number up to 32760 that indicates the block length, in bytes. Interpretation of the number depends on the following associated record format in Field 3:
	Format F - Block length (must be a multiple of the logical
	record length in Field 5)
	Format V - Maximum block length (including the 4 byte
	length indicator in the block)
	Format U - Maximum block length.
Record Length (5 bytes)	A number that indicates the record length, in bytes. Interpretation of the number depends on the following associated record format in Field 3:
	Format F - Logical record length
	Format V - Maximum logical record length (including the
	4 byte length indicator in the records)
	Format U - Zeros.
Tape Density (1 byte)	A code indicating the record density of the tape, as follows:
	Recording Density
	DEN Value 9-Track Tape
	3 1600 (PE)
	4 6250 (GCR)
	PE - is for phase encoded mode
	GCR - is for group coded recording mode.
Dataset Position (1 byte)	A code, indicating a volume switch, is as follows:
	0 - No volume switch has occurred
	1 - A volume switch previously occurred.

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Block Length (5 bytes)	A number up to 32760 that indicates the block length, in bytes. Interpretation of the number depends on the following associated record format in Field 3:
	Format F - Block length (must be a multiple of the logical
	record length in Field 5)
	Format V - Maximum block length (including the 4 byte
	length indicator in the block)
	Format U - Maximum block length.
Record Length (5 bytes)	A number that indicates the record length, in bytes. Interpretation of the number depends on the following associated record format in Field 3:
	Format F - Logical record length
	Format V - Maximum logical record length (including the
	4 byte length indicator in the records)
	Format U - Zeros.
Tape Density (1 byte)	A code indicating the record density of the tape, as follows:
	Recording Density
	DEN Value 9-Track Tape
	3 1600 (PE)
	4 6250 (GCR)
	PE - is for phase encoded mode
	GCR - is for group coded recording mode.
Dataset Position	A code, indicating a volume switch, is as follows:
(1 byte)	0 - No volume switch has occurred
	1 - A volume switch previously occurred.

	first 8 bytes contain the name of the job, the ninth byte is a slash (/), and the final 8 bytes contain the name of the job step.	
Tape Recording Technique (2 bytes)	A code or blanks indicating the tape recording technique used. This field is recorded as blanks for 9-track tape. The only technique available for 9-track tape is odd parity and no translation.	
Control Characters (1 byte)	A code indicating whether a control character set was used to create the dataset and the type of control characters used:	
	A Contains ASCII control characters	
	M Contains machine control characters	
	b Contains no control characters.	
Reserved (1 byte)	Reserved for future use - should be recorded as blanks.	
Block Attribute (1 byte)	A code indicating the block attribute used to create the dataset:	
	B Blocked records	
	S Spanned records	
	R Blocked and spanned records	
	b No blocked and no spanned records.	
Reserved (8 bytes)	Bytes 40-42 - reserved for future use -should be blanks. Bytes 43-47 - (3420 tape units only) serial number of creating tape unit. Blank for other units.	
Checkpoint Dataset (1 byte)	In VS2-Release 2, this byte contains the identifier character C if the dataset is a checkpoint dataset; the byte is blank if the dataset is not a check point dataset or in other releases of the VS systems.	
Reserved (32 bytes)	Reserved for future use - should be recorded as blanks.	

10. Testing Requirements

- 10.1 Within thirty (30) days of the execution of this Agreement, BellSouth shall send to HTI bill data in the appropriate mechanized format (i.e. CABS or CRIS) for testing to ensure that bills can be processed and that bills comply with the requirements of this Attachment 6. After receipt of the test data from BellSouth, HTI will notify BellSouth if the billing transmission meets HTI's testing specifications. If the transmission fails to meet HTI's testing specifications, BellSouth shall make the necessary corrections. At least three (3) sets of testing data must meet HTI's testing specifications prior to BellSouth sending HTI a mechanized production bill for the first time via electronic transmission or tape. Thereafter, BellSouth may begin sending HTI mechanized production bills on the next Bill Date, or within ten (10) days, whichever is later.
- 10.2 At least thirty (30) days prior to changing mechanized formats (e.g., CABS), BellSouth shall send to HTI bill data in the appropriate mechanized format for testing to ensure that the bills can be processed and that the bills comply with the requirements of this Attachment. BellSouth agrees that it will not send HTI bill data in the new mechanized format until such bill data has met the testing specifications as set forth in this subsection.
- 10.4 During the testing period, BellSouth shall transmit to HTI billing data and information via paper transmission. Test tapes shall be sent to HTI at the following location:

Test Tapes:	нті

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11. Additional Requirements

- 11.1 BellSouth agrees that if it transmits data to HTI in a mechanized format, BellSouth will also comply with the following specifications which are not contained in CABS guidelines but which are necessary for HTI to process billing information and data:
 - The BAN shall not contain embedded spaces or low values.
 - The Bill Date shall not contain spaces or non-numeric values.
 - · Each bill must contain at least one detail record.
 - Any "From" Date should be less than the associated "Thru" Date and neither date can contain spaces.
 - The Invoice Number must not have embedded spaces or low values.

11.2 DELETED

12. Bill Accuracy Certification

Within 120 days of the execution of this Agreement, HTI and BellSouth will agree upon a CRIS billing quality assurance program that will eliminate the need for post-billing reconciliation. Appropriate terms for access to any BellSouth documents, systems, records, and procedures for the billing, recording of charges will be part of that program. In the event the Parties are unable to reach agreement on such a program, the matter will be resolved pursuant to the disputes process provided in Attachment 1.

13. Payment Of Charges

13.1 Subject to the terms of this Agreement, HTI and BellSouth will pay each other within thirty (30) calendar days from the Bill Date, or twenty (20) calendar days from the receipt of the bill, whichever is later. If such payment due date would cause payment to be due on a Saturday, Sunday or Holiday (i.e., New Years Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, and a day when Washington's Birthday, Memorial day or Columbus Day is legally observed), payment for such bills will be due from HTI as follows:

If such 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 such 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.

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13.2 Payments shall be made in U.S. Dollars via electronic funds transfer ("EFT") to the other Party's bank account. At least thirty (30) days prior to the first transmission of billing data and information for payment, BellSouth and HTI shall provide each other the name and address of its bank, its account and routing number and to whom billing payments should be made payable. If such banking information changes, each Party shall provide the other Party at least sixty (60) days written notice of the change and such notice shall include the new banking information. The Parties will render payment via EFT. HTI will provide BellSouth with one address to which such payments shall be rendered and BellSouth will provide to HTI with only one address to which such payments shall be rendered. In the event HTI receives multiple bills from BellSouth which are payable on the same date, HTI may remit one payment for the sum of all bills payable to BellSouth's bank account specified in this subsection. Each Party shall provide the other Party with a contact person for the handling of billing payment questions or problems.

14. Billing Disputes

- 14.1 Each Party agrees to notify the other Party upon the discovery of a billing dispute. In the event of a billing dispute, the Parties will endeavor to resolve the dispute within sixty (60) calendar days of the Bill Date on which such disputed charges appear. Resolution of the dispute is expected to occur at the first level of management resulting in a recommendation for settlement of the dispute and closure of a specific billing period. The Parties shall replicate the bill closure procedures set forth in the Access Billing Supplier Quality Certification Operating Agreement. A mutually agreed upon escalation process similar to what is used for CABS billing will be established for the CRIS resale bill as part of the quality assurance program developed pursuant to Section 12 of this Attachment 6. In the interim, in the event of a billing dispute, the process described in Exhibit B to this Attachment shall be followed. Closure of a specific billing period will occur by joint agreement of the Parties whereby the Parties agree that such billing period is closed to any further analysis and financial transactions, except those resulting from an Audit as described in Section 11 of the General Terms and Conditions of this Agreement. Closure will take place within three (3) months of the Bill Date. The month being closed represents those charges that were billed or should have been billed by the respective Bill Date. If the issues are not resolved within the allotted time frame, the following resolution procedure will begin:
- 14.1.1 If the dispute is not resolved within sixty (60) days of the Bill Date, the dispute will be escalated to the second level of management for each of the respective Parties for resolution. If the dispute is not resolved within ninety

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- (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.
- 14.1.2 If the dispute is not resolved within one hundred and twenty (120) days of the Bill Date, the dispute will be escalated to the fourth level of management for each of the respective Parties for resolution.
- 14.1.3 If the dispute is not resolved within one hundred and fifty (150) days of the Bill Date, the dispute will be resolved in accordance with the procedures set forth in the Section 16 of the General Terms and Conditions of this Agreement and Attachment 1.
- 14.2 If a Party disputes a charge and does not pay such charge by the payment due date, such charges shall be subject to late payment charges as set forth in the Late Payment Charges provision of this Attachment. If a Party disputes charges and the dispute is resolved in favor of such Party, the other Party shall credit the bill of the disputing Party for the amount of the disputed charges along with any late payment charges assessed no later than the second Bill Date after the resolution of the dispute. Accordingly, if a Party disputes charges and the dispute is resolved in favor of the other Party, the disputing Party shall pay the other Party the amount of the disputed charges and any associated late payment charges assessed no later than the second bill payment due date after the resolution of the dispute. In no event, however, shall any late payment charges be assessed on any previously assessed late payment charges.

15. Late Payment Charges

If either Party fails to remit payment for any charges described in this Attachment by the payment due date, or if a payment or any portion of a payment is received by either Party after the payment due date, or if a payment or any portion of a payment is received in funds which are not immediately available to the other Party, then a late payment penalty shall be assessed. The late payment charge shall be calculated based on the portion of the payment not received by the payment date times the late factor as set forth in BellSouth's Section A2 of the General Subscriber Services Tariff, Section B2 of the Private Line Services Tariff, and Section E2 of the Access Services Tariff. In no event, however, shall interest be assessed on any previously assessed late payment charges.

Adjustments

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Subject to the terms of this Attachment, BellSouth will reimburse HTI for incorrect billing charges; overcharges; Local Services Elements, or any Combination thereof, ordered or requested but not delivered; interrupted Local Services associated with any Element, or combination thereof, ordered or requested; Local Services, Elements, or Combination thereof, of poor quality; and installation problems if caused by BellSouth. Such reimbursements shall be set forth in the appropriate section of the CABS bill pursuant to CABS, standards.

17. Recording of Call Information

- 17.1 Where Telecommunications Services are being resold or unbundled Network Elements are being utilized, the Parties agree to record call information in accordance with this subsection. To the extent technically feasible, each Party will record and process the usage sensitive call detail information associated with the other Party's local exchange customer. The call records for the charged number shall be provided at a Party's request and shall be formatted pursuant to BellCore standards and the terms and conditions of this Agreement. BellSouth and HTI agree that they will retain, at each Party's sole expense, copies of all AMA transmitted to the other Party for at least seven (7) calendar days after transmission to the other Party.
- 17.2 Each Party will provide the other Party with a carrier identification code ("CIC") on each EMR record transmitted to the other Party. If BellSouth does not have a CIC for any local exchange carrier, BellSouth or IXC for whom BellSouth must supply to HTI billing records or information pursuant to this Attachment, BellSouth agrees that it will assist the local exchange carrier. BellSouth or IC in obtaining a CIC expeditiously. Until the local exchange carrier, BellSouth or IXC has received a CIC, BellSouth agrees that it will submit its CIC to HTI on those records for billing and payment. BellSouth further agrees that it will then be responsible for obtaining reimbursement for the respective charges from the appropriate carrier. Likewise, if HTI does not have a CIC for any local exchange carrier, BellSouth or IXC for whom HTI must supply to BellSouth billing records or information pursuant to this Attachment, HTI agrees that it will assist the local exchange carrier, BellSouth or IXC in obtaining a CIC expeditiously. Until the local exchange carrier, BellSouth or IXC has received a CIC, HTI agrees that it will submit its CIC to BellSouth on those records for billing and payment. HTI further agrees that it will then be responsible for obtaining reimbursement for the respective charges from the appropriate carrier.

- 17.3 DELETED
- 17.3.1 DELETED
- 17.3.2 **DELETED**
- 17.3.3 **DELETED**
- 17.4 The Parties agree that they will provide each other a single person to contact regarding any data exchange problems.
- 18. DELETED

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Exhibit A

REQUIREMENTS FOR NON-CABS BILLING OF HTI LOCAL SERVICE RESALE

HTI and BellSouth agree to the following requirements for non-CABS billing for Local Service Resale:

- BellSouth will provide a 13 character alpha-numeric Billing Account Number (BAN)
- BellSouth will provide one (1) BAN per Regional Accounting Office (RAO)
- BellSouth will provide one (1) bill cycle for all BANs / RAOs excluding the 4th, 7th and 13th bill cycles
- . BellSouth will render the bill within ten (10) days of the bill date
- HTI will render payment 30 days from the bill date or 20 days from the date the bill is received, whichever is greater
- HTI will render payment via wire transfer to the existing CABS billing address
- · BellSouth will render billing for PIC charges separately
- BellSouth will bill monthly service charges in advance of the bill date
- BellSouth will bill usage charges in arrears of the bill date
- BellSouth will identify all charges by incurred state except in cross boundary situations
- All local billing is considered jurisdiction '5'
- BellSouth will uniquely identify the local billing BANs as Type Of Account 'Q'
- BellSouth will separately identify business and residence charges via 1FB or 1FR
- BellSouth will provide From and Through dates for all local billing

Exhibit B

BELLSOUTH LOCAL CARRIER SERVICE CENTER (LCSC) ESCALATION LIST

LOCAL CARRIER SERVICE CENTER

Telephone Numbers

Billing Inquiries and General Assistance

Fax Number800-872-7059

All Forms

Managers

Director

Barbara Warren700-451-0853

Manager

Paula Murphry700-451-0883

Mailing Address

Local Carrier Service Center (LCSC)

BellSouth Room D-20

5147 Peachtree Industrial Boulevard

Chamblee, GA 30341

Hours of Operation 8:30 AM to 5:00 PM EST

Monday - Friday

Holidays Observed New Years Day Memorial Day

Independence Day

Labor Day

Thanksgiving Day Christmas Day

Process

The long-term escalation process will be developed as part of

the Quality Assurance program outlined in paragraph 12 of this

attachment. In the interim, HTI will escalate any billing

discrepancies to the BellSouth LCSC Manager. If resolution is not attained within 30 days, HTI will escalate the discrepancy to the BellSouth Director. If the billing discrepancy is not resolved

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within 30 days, HTI will obtain the name and number of the next level manager from the BellSouth Director and continue escalating until a resolution is reached.

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PROVISION OF CUSTOMER USAGE DATA

- Introduction
- 1.1 This Attachment sets forth the terms and conditions for BellSouth's provision of Recorded Usage Data (as defined in this Attachment) to HTI. At HTI's request, Recorded Usage Data shall be provided by BellSouth to HTI when HTI purchases Network Elements, or Local Services from BellSouth.
- General Requirements for Recorded Usage Data
- 2.1 BellSouth shall provide HTI with Recorded Usage Data in accordance with this Attachment 7.
- 2.2 DELETED
- 2.3 BellSouth shall retain Recorded Usage Data in accordance with applicable law and regulation.
- 3. Usage Data Specifications
- 3.1 BellSouth will record all usage originating from HTI Customers using BellSouth-provided Elements or Local Services. Recorded Usage Data includes, but is not limited to, the following categories of information:
 - Completed Calls
 - Use of Feature Activations for Call Return, Repeat Dialing, and Usage Sensitive Three Way Calling
 - · Rated Calls To Information Providers Reached Via BellSouth Facilities
 - Calls To Directory Assistance Where BellSouth Provides Such Service To An HTI Customer
 - Calls Completed Via BellSouth-Provided Operator Services Where BellSouth Provides Such Service To HTI's Local Service Customer originating from HTI's customer or billed to HTI
 - · For BellSouth-Provided Centrex Service, Station Level Detail
 - Records Shall Include Complete Call Detail And Complete Timing Information
- 3.2 BellSouth shall provide to HTI Recorded Usage Data for HTI Customers only. BellSouth will not submit other carrier local usage data as part of the HTI Recorded Usage Data.
- 3.3 DELETED
- 3.4 DELETED

3.5 End user customer usage records and station level detail records shall be in packs in accordance with EMR standards.

4. Recorded Usage Data Format

- 4.1 BellSouth will provide Recorded Usage Data in the EMR format and by category, group and record type, as specified in the HTI Customer Usage Data Transfer Requirements, ("Data Requirements"), which is attached hereto and incorporated herein as Appendix II. BellSouth will provide the usage in accordance with BellCore EMR Standards.
- 4.2 BellSouth shall include the Working Telephone Number (WTN) of the call originator on each EMR call record.
- 4.3 End user customer usage records and station level detail records shall be in packs in accordance with EMR standards.

5. Recorded Usage Data Reporting Requirements

- 5.1 BellSouth shall segregate and organize the Recorded Usage Data in accordance with HTI's instructions.
- 5.2 BellSouth shall provide Recorded Usage Data to one HTI biller location as designated by HTI.
- 5.3 BellSouth shall transmit Data Requirements formatted Recorded Usage Data to HTI via CONNECT:Direct as designated by HTI. The charge for transmitting the Data Requirements is set forth in Part IV of this Agreement.
- 5.4 HTI will test and certify the CONNECT:Direct interface to ensure the accurate receipt of Recorded Usage Data. BellSouth shall make any changes necessary to pass the HTI CONNECT:Direct certification process.
- 5.5 BellSouth shall provide Recorded Usage Data to HTI on a schedule to be determined by the Parties once a day for each regular business day, five days a week except holidays as designated by HTI.
- 5.6 BellSouth will establish a single point of contact to respond to HTI call usage, data error, and record transmission inquiries.
- 5.7 The Recorded Usage Data EMR format, content, and transmission process will be tested as specified by HTI.
- 5.8 When requested by HTI for security purposes, BellSouth shall use its best efforts to provide HTI with Recorded Usage Data within the time frame

specified by HTI. If not available in EMR format, the Recorded Usage Data may be provided in AMA format.

6. Recording Failures

- When BellSouth records usage and fails to record messages, regardless of whether HTI or BellSouth are performing the billing function, BellSouth shall notify HTI of the amount of estimated HTI revenue in accordance with Section 6.3. BellSouth shall compensate HTI for the net loss to HTI as a result of HTI's inability to bill for services associated with the recording failure. Net loss shall be defined as the gross revenues to HTI attributable to the recording failures less the cost of services that BellSouth was unable to bill HTI and the internal costs HTI avoided as a result of the recording failure.
- 6.1.1 BellSouth shall include the amount of unbillable HTI revenue that is attributable to failures to record, within the monthly billing statement.

6.2 Lost, Damaged, Destroyed Message Data

- 6.2.1 When HTI message data are lost, damaged, or destroyed as a result of BellSouth error or omission when BellSouth is performing the billing and/or recording function, and the data cannot be recovered or resupplied in time for the time period during which messages can be billed according to legal limitations, or such other time periods that may be agreed to by the Parties within the limitations of the law, BellSouth shall notify HTI of the amount of estimated HTI revenue in accordance with Section 6.3 of this Attachment and BellSouth shall compensate HTI for the net loss to HTI.
- 6.2.2 When HTI message data are lost, damaged, or destroyed as a result of BellSouth error or omission when HTI is performing the billing and/or recording function, and the data cannot be recovered or resupplied in time for the time period during which messages can be billed according to legal imitations, or such other time periods that may be agreed to by the Parties within the limitations of the law, BellSouth shall notify HTI of the amount of estimated HTI revenue in accordance with Section 6.3 and BellSouth shall compensate HTI for the net loss to HTI.
- 6.2.3 BellSouth shall notify HTI in advance of the date of monthly billing statement that shall contain such adjustments. BellSouth shall provide sufficient information to allow HTI to analyze the language.

6.3 Recording Quality

6.3.1 Material Loss

BellSouth shall review its daily controls to determine if data has been lost. BellSouth shall use the same procedures to determine an HTI material loss as it uses for itself. The message threshold used by BellSouth to determine a material loss of its own messages will also be used to determine a material loss of HTI messages. When it is known that there has been a loss, actual message and minute volumes should be reported if possible. Where actual data are not available, a full day shall be estimated for the recording entity as outlined in the paragraph below titled Estimating Volumes. The loss is then determined by subcontracting recorded data from the estimated total day business.

6.3.2 Complete Loss

Estimated message and minute volumes for each loss consisting of an entire/tape or file lost in transit, lost after receipt, degaussed before processing, received blank or unreadable, etc. shall be reported. Also the loss of one or more boxes of operator tickets shall be estimated and reported if applicable.

6.3.3 Estimated Volumes

From message and minute volume reports for the entity experiencing the loss, BellSouth shall secure message/minute counts for the corresponding day of the weeks for two (2) weeks preceding the week following that in which the loss occurred. BellSouth shall apply the appropriate Average Revenue Per Message (ARPM) to the estimated message volume to arrive at the estimated lost revenue.

Exceptions:

- A. If the day of loss is not a holiday but one (1) (or more) of the preceding corresponding days is a holiday, use an additional number of weeks in order to procure volumes for two (2) non-holidays.
- B. If the call or usage data lost represents calls or usage on a weekday which is a holiday (except Christmas and Mothers Day), use volumes from the preceding and following Sunday.
- C. If the call or usage data lost represents calls or usage on Mother's Day or Christmas, use volumes from that day in the preceding year (if available).
- D. In the selection of corresponding days for use in developing estimates, consideration shall be given to other conditions which may affect call volumes such as tariff changes, weather and local events (conventions, festivals, major sporting events, etc.) in which case the use of other days may be more appropriate.

6.4 Unbillable Compensation

- 6.4.1 BellSouth liability for such unbillables shall be limited to instances of error or omission, including but limited to, the acts or omissions of BellSouth employees, agents and contractors, and the failures of BellSouth hardware, software and other BellSouth equipment. BellSouth's liability to HTI shall be limited to the net loss to HTI.
- 6.4.2 The term "unbillable" refers to a message or service that cannot be billed to the correct HTI customer.
- 6.4.3 BellSouth shall include Unbillables as a result of Recording Failure, or Lost, Damaged, or Destroyed Data on the monthly billing statement.

DELETED

8. Local Account Maintenance

- When HTI purchases Local Service from BellSouth, and, as appropriate, when HTI purchases certain Unbundled Network Elements, BellSouth shall provide HTI with Local Account Maintenance as described herein. These procedures are in addition to Service Order procedures set forth in Part I and Attachment 4 to the Agreement.
- When notified by a CLEC that an HTI Customer has switched to CLEC service, BellSouth shall provision the change, and notify HTI via CONNECT:Direct that the customer has changed to another service provider ("OUTPLOC").
- 8.3 When notified by HTI that a customer has changed his/her PIC only from one interexchange carrier to another carrier, BellSouth shall provision the PIC only change and convey the confirmation of the PIC change via the work order completion feed.
- 8.4 If notified by an interexchange carrier using an '01' PIC order record that an HTI Customer has changed his/her PIC only, BellSouth will reject the order and notify that interexchange carrier that a CARE PIC record should be sent to the serving CLEC for processing.

9. <u>Incollect/Outcollect Procedures</u>

9.1 **Definitions**

Centralized Message Distribution System (CMDS) is the BellCore administered system based in Kansas City, used to exchange Exchange Message Record formatted data.

Exchange Message Record (EMR) is the nationally administered standard format for the exchange of data among Carriers within the industry.

Outcollect Message -- A message that originates on an HTI line but bills, using HTI's rates, to an end user served by another Local Service Provider.

Incollect Message - A message that originates on another Local Service Provider Line but bills, using that Local Service Provider's rates, to an end user by HTI.

ICS - Inter-Company settlements is the revenue associated with charges billed by a company other than the company in whose service area such charges were incurred in Florida.

Non-ICS - Non-Inter Company settlements is the revenue associated with charges billed and earned within the same state. (Intra-state)

9.2 Incollect Services

HTI will purchase and bill rated Incollect Messages from BellSouth. BellSouth will notify HTI of any changes to Subappendix F within thirty (30) days of the effective date of such change. Both HTI and BellSouth must mutually agree to this change.

9.2.1 Message Types Subject to the Services

HTI will provide the Incollect Services only for the types of messages identified on Subappendix G to this Attachment 7 (collectively, "Messages").

9.2.2 Pack Failures/Data Retention

BellSouth shall notify HTI of any transmission failure within 24 hours. BellSouth shall correct and retransmit to HTI any such packs within 24 hours. If message packs are retransmitted for any reason, including, but not limited to, a reject of the packs, damage in transit, dataset naming failures, or similar reasons, if caused by BellSouth, then BellSouth shall assume the expense of replacement unless the need for replacement is caused by HTI's act or omission. BellSouth agrees to retain copies of all message packs transmitted to HTI for minimum of forty-five (45) calendar days of the date of original transmission.

9.2.3 Message Return Policy

BellSouth will receive messages returned from HTI that cannot be billed and the appropriate standard field and values on the EMR records will be populated.

9.2.4 Purchase of Messages

HTI will purchase rated messages from BellSouth at the purchase of accounts receivable rates ("PARS rates") set forth in Subappendix H of this Attachment 7 and will be net the billing and collection rates also set forth in Subappendix H. BellSouth shall provide HTI with a monthly statement for messages BellSouth transmitted to HTI for purchase (including returned messages transmitted back to BellSouth as unbillable).

The monthly statement provided by BellSouth shall list the following items:

number of incollect messages purchased number of incollect unbillable messages returned

- message revenue purchased
- state taxes associated with purchased messages
- + local taxes associated with purchased messages
- unbillable returned message revenue
- state taxes associated with unbillable returned messages
- local taxes associated with unbillable returned messages
- billing charges (net number of incollect messages purchased/ returned times B&C rate; B&C should not be applicable if purchased messages were returned)

TOTAL AMOUNT DUE BELLSOUTH

BellSouth shall provide HTI with a monthly intraregion settlement report to support the monthly statement. The monthly statement and settlement report shall reflect messages processed for purchasing from 26th to 25th of each month. The BellSouth shall deliver to HTI the monthly statement and settlement report on or before the fifteenth calendar day month immediately following the month in which messages were purchased (including returned messages).

BellSouth shall send monthly statement and settlement report to:

HTI - Charlotte Billing Center
Settlements Manager
10101 David Taylor Drive
Charlotte, NC 28262

HTI shall pay BellSouth via check or wire on or before last business day of the billing statement month (e.g. service month - 4/96, billing month = 5/15/96, payment due date = 5/31/96.)

If the Payment Due Date falls on a Saturday or a bank holiday that is observed on a Tuesday, Wednesday, Thursday or Friday, then the Payment Due Date shall be the last non-holiday day preceding such Saturday or holiday. If the Payment Due Date falls on a Sunday or a bank holiday that is observed on a Monday, then the Payment Due Date shall be the first non-holiday following such Sunday or holiday. HTI shall pay BellSouth a late payment charge calculated based on the lesser of (i) one and one-half percent (1 1/2%) or (ii) the highest interest rate (in decimal value) which may be charged by law for commercial transactions on all payments received after the due date.

9.2.5 Taxes

BellSouth shall be solely responsible for calculation of all applicable sales, excise, taxes, and surcharges on the Messages purchased by HTI to the appropriate jurisdiction. BellSouth will indicate the tax to be billed to the end user customer on the messages sent to HTI for billing. FET will be calculated by HTI but will be BellSouth's responsibility to remit. BellSouth shall file all returns for taxes imposed on, or with respect to messages sold by BellSouth. BellSouth agrees to hold HTI harmless from and against any liability or loss resulting from any tax, charge, interest, additions to tax, surcharges or other charges payable or incurred by HTI as a result of BellSouth's failure or error in calculating tax as described in this section.

9.3 Outcollect Services

BellSouth shall purchase rated Outcollect Messages and provide message collection and distribution on behalf of HTI for intraLATA collect, calling card and third number billed messages. For Intraregion non-ICS messages, the billing company is responsible for billing these messages. The Messages will be received through CMDS. BellSouth shall forward such Messages at agreed upon intervals to HTI. HTI will notify BellSouth of any changes to Subappendix I to this Attachment 7 within thirty (30) days of the effective date of such change. Both HTI and BellSouth must mutually agree to this change.

9.3.1 Message Types Subject to the Services

BellSouth will provide the Services only for the types of messages identified on Subappendix J (collectively, "Messages"). BellSouth will purchase and forward the messages to HTI subject to the provisions of Section 9.3 preceding.

9.3.2 Pack Failures/Data Retention

HTI shall notify BellSouth of any transmission failures within 24 hours. HTI shall correct and retransmit to BellSouth any such packs within 24 hours. If message packs are retransmitted for any reason including but not limited to a reject of the packs, damage in transit, dataset naming failures, or similar reasons, if caused by HTI, then HTI shall assume the expense of replacement unless the need for replacement is caused by BellSouth or omission. HTI agrees to retain copies of all message packs transmitted to BellSouth for minimum of forty-five (45) calendar days of the date of original transmission.

9.3.3 Message Return Policy

HTI will receive messages returned from BellSouth that cannot be billed and the appropriate standard field and values on the EMR records will be populated.

9.3.4 Purchase of Messages

BellSouth will purchase messages from HTI at the purchase of accounts receivable rates ("PARS rates") set forth in Subappendix K ("PARS rates") and will be net the billing and collection rates also set forth on Subappendix K to this Attachment. HTI shall provide BellSouth with a monthly statement for messages HTI transmitted to BellSouth via CMDS for purchase (including returned messages transmitted back to HTI via CMDS as unbillable.)

Monthly statement provided by HTI shall list the following items:

number of outcollect messages purchased number of outcollect unbillable messages returned

- + message revenue purchased
- + state taxes associated with purchased messages
- + local taxes associated with purchased messages
- federal taxes associated with purchased messages
- unbillable returned messages revenue
- state taxes associated with unbillable returned messages
- local taxes associated with unbillable returned messages
- federal taxes associated with unbillable returned messages
- billing charges (net number of outcollect messages purchased/returned times B&C rate; B&C should not be applicable if purchased messages were returned)

TOTAL AMOUNT DUE HTI

HTI shall provide BellSouth with a monthly intraregion settlement report to support the monthly statement. Monthly statement and settlement report shall reflect messages processed through the intraregion settlement system from

26th to 25th of each month. HTI shall deliver to BellSouth the monthly statement and settlement report on or before the fifteenth calendar day of the month immediately following the month in which messages were purchased (including returned messages). HTI shall send monthly statement and settlement report to:

[BELLSOUTH TO PROVIDE]

BellSouth shall pay HTI via wire or check on or before the last business day of the billing statement month (e.g. service month - 4/96, billing statement date - 5/15/96, payment due date = 5/31/96.)

If the Payment Due Date falls on a Saturday or a bank holiday that is observed on a Tuesday, Wednesday, Thursday, or Friday, then the Payment Due Date shall be the last non-holiday day preceding such Saturday or holiday. If the Payment Due Date falls on a Sunday or a bank holiday that is observed on a Monday, then the Payment Due Date shall be the first non-holiday following such Sunday or holiday.

HTI shall pay BellSouth a late payment charge calculated based on the lesser of (i) one and one-half percent (1 1/2%) or (ii) the highest interest rate (in decimal value) which may be charged by law for commercial transactions on all payments received after the due date.

9.3.5 Taxes

HTI shall be solely responsible for calculation of all applicable sales, excise, taxes, and surcharges on the Messages purchased by BellSouth to the appropriate jurisdiction. HTI will indicate the tax to be billed to the end user customer on the message sent to BellSouth for billing. BellSouth will use the tax on the message for customer billing. FET will be calculated by BellSouth but will be HTI's responsibility to remit. HTI shall file all returns for taxes imposed on, or with respect to messages sold by HTI. HTI agrees to hold BellSouth harmless from and against any liability or loss resulting from any tax, charge, interest, additions to tax, surcharges or other charges payable or incurred by BellSouth as a result of HTI's failure or error in calculating tax as described in this section of the Agreement.

9.4 Settlement of Disputed Amounts and Claims/Escalation Procedures

If either Party disputes any portion of the Amount Due, said Party shall notify the other Party in writing of the nature and basis of the dispute. Either Party may file a substantiated claim with the other Party for billing and collection ORDER NO. PSC-98-0777-FOF-TP DOCKET NO. 980309-TP PAGE 249

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charges and/or billed revenue. If the dispute is not resolved by the Payment Date, the claiming Party shall pay all undisputed amounts, but is not obligated to pay the disputed amount. If a Party has paid an amount which it subsequently chooses to dispute, that Party shall not be authorized or permitted to reduce amount owed on subsequent bills or statements or in any way offset against such owed amounts the amount being claimed. The Party receiving the claim shall have thirty (30) days from the notification date, or other mutually agreed upon period, to process the claim and notify the claiming Party of the claim status. If the claim, in whole or part, is ultimately resolved in favor of the claimant, the claiming Party shall be entitled to refund or a credit. After written notice to the claiming Party that the claim has been sustained, the total amount of the refund or credit, shall be remitted no later than thirty-one (31) calendar days following resolution. Both Parties shall retain such detailed information as may reasonably be required for resolution of the disputed amount during the pendency of the dispute. No claims may be made more than one (1) year after the date of the event that gave rise to the claim.

In the event that any dispute cannot be resolved under this Section 9.4, the Parties shall follow the provisions set forth in Section 16 of the General Terms and Conditions of the Agreement and Attachment 1.

9.5 Industry Standards

The provisions set forth in this Section 9 are intended to cover incollect/out collect procedures until industry standards are adopted. If such standards are adopted, and both Parties agree on such standards, the Parties agree to review these procedures and amend these procedures as appropriate.

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APPENDIX II TO ATTACHMENT 7

CUSTOMER USAGE DATA

TRANSFER REQUIREMENTS

E

SECTION I: SCOPE

1. General

This Appendix addresses the transmission by a BellSouth of HTI Customer usage to HTI.

2. Usage Summary

Messages will be transmitted, via a direct feed, to HTI in standard EMR format.

The following is a list of EMR records that HTI can expect to receive from BellSouth:

Header Record 20-20-01

Trailer Record 20-20-02

Detail Records* 01-01-01, 06, 07, 08, 09, 16, 18, 31, 32, 33, 35, 37,80, 81,

10-01-01, 06, 07, 08, 09, 16, 18, 31, 32, 35, 37, 80, 81, 82, 83

Credit Records 03-01-XX

Rated Credits 41-01-XX

Cancel Records 51-01-XX 58-01-XX (Where the Record Being Cancelled is

Unrated.)

Correction Records 71-01-XX

*Category 01 is utilized for Rated Messages; Category 10 is utilized for Unrated Messages

In addition, BellSouth shall provide a 42-50-01 Miscellaneous Charge record to support the Special Features Star Services (see Subappendix F for specific details) if these features are part of BellSouth's offering. For detailed information regarding EMR, refer to the current version of the BellCore Practice BR010-200-010 Appendix.

3. Appendix Content

This Appendix describes baseline requirements for the transfer of BellSouth recorded, unrated usage to HTI. Testing requirements and the reports needed to ensure data integrity are also included. Additional requirements and implementation details may be identified for conditions unique to

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BellSouth. Modifications and/or exceptions to this Appendix must be negotiated and mutually agreed upon by BellSouth and HTI.

SECTION II: RECORDED USAGE TO BE TRANSMITTED TO HTI

General

This section addresses the types of usage to be transmitted by BellSouth to HTI.

2. Usage To Be Transferred To HTI

2.1 HTI Usage To Be Transferred

The following messages recorded by BellSouth are to be transmitted to HTI. BellSouth recorded usage includes all usage by HTI Customers.

NOTE: Rated incollect messages should be transmitted via the direct feed and can be intermingled with the unrated messages. No special packing is needed.

- 2.1.1 For the period beginning upon the execution of this Agreement through November 15, 1996, the Parties agree that if any of the above mentioned messages cannot be rated and/or billed by HTI, BellSouth will work diligently and in good faith with HTI to determine the cause of the problem and will work to expeditiously resolve the defect. Upon the execution of this Agreement, BellSouth will provide HTI with a contact name and number for the resolution of any problems that may arise under this subsection. The Parties further agree that if the number of problems that occur are de minimus, the process described in this subsection may be extended for the time period agreed to by the Parties. BellSouth to provide MIC manager name and number.
- 2.2 File transfer specifications are included within Section III of this Appendix II.

HTI Usage

For all Recorded Usage Data provided by BellSouth to HTI, such Recorded Usage Data in a local resale environment shall include all intraLATA toll and local usage originating from HTI customers or billed to HTI. BellSouth will provide HTI with unrated EMR records associated with all intraLATA toll and local usage which they record on HTI's behalf. Any Category, Group and/or Record types approved in the future for BellSouth will be included if they fall within the definition of local service resale. HTI shall be given notification of implementation of a new type within the negotiated timeframes. NOTE:

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BellSouth messages will be packed using the packing criteria outlined in Section III. 4.8 of this Appendix. It is important to note that all BellSouth messages will be packed together (intermingled) based on the appropriate HTI Send To/Bill To RAO combination. Specific categories, groups, and record types will not be packed separately.

SECTION III: BELLSOUTH TO HTI USAGE FEED

General

This section contains the information required for BellSouth to transmit to HTI the usage defined in this Appendix, Section II. This section specifically addresses the dataset requirements and processing.

2. Detailed EMR Record Edits

HTI will perform detailed record edits on the unrated and rated messages upon receipt from BellSouth. See Appendix II, Section II, Paragraph 2.1.1.

3. Duplicate Record Checks

HTI will perform record checks on the unrated and rated messages to validate that duplicate messages are not sent by BellSouth to HTI.

4. BellSouth to HTI Usage Feed

4.1 DELETED

4.2 Physical Characteristics

Data transported to HTI on tape or cartridge via a courier will have the physical characteristics indicated in Subappendix A. HTI's intent is for variable block format (2,476 bytes) with a LRECL of 2472.

4.3 Data Delivery Schedules

Data will be delivered to HTI by BellSouth daily (Monday through Friday) unless otherwise negotiated. HTI and/or BellSouth Data Center holidays are excluded. BellSouth and HTI will exchange schedules of designated Data Center holidays.

4.4 Resending Data

HTI will notify BellSouth of resend requirements if a pack or entire dataset must be replaced due to pack rejection, damage in transit, dataset name failure, etc.

4.5 Pack Rejection

Critical edit failure on the Pack Header or Pack Trailer records will result in pack rejection (e.g., detail record count not equal to grand total included in the pack trailer). Notification of pack rejection will be made by HTI within one (1) business day of processing. Rejected packs will be corrected by BellSouth and retransmitted to HTI by BellSouth.

4.6 Held Packs And Messages

HTI and BellSouth will track pack number to control input based upon invoice sequencing criteria. BellSouth will be notified of sequence failures identified by HTI and resend procedures are to be invoked.

4.7 Data Content Requirements

EMR is the format to be used for usage data provided to HTI.

4.8 RAO Packing Requirements

A pack shall contain a minimum of one message record or a maximum of 9,999 message records plus a pack header record and a pack trailer record. A file transmission contains a maximum of 99 packs. A dataset shall contain a minimum of one pack. BellSouth will provide HTI one dataset per sending location, with the agreed upon RAO/OCN populated in the Header and Trailer records.

Within the Header and Trailer records, the FROM RAO identifies the location that will be sending usage to HTI. BellSouth will populate the FROM RAO field with the unique numeric value identifying the location that is sending the data to HTI. BellSouth will populate the Send To/Bill To RAO fields with the appropriate HTI RAO values. Also, Pack Header and Trailer will have the OCN appropriately populated.

The FROM RAO, OCN, and Remote Identifiers will be used by HTI to control invoice sequencing and each will have its own invoice controls. See previous notes regarding Unbillables—accepting BST's Contact Number and BST Accepts HTI's 2.1.1. terms.

The file's Record Format (RECFM) will be Variable Block (VB) Size 2,476 and the Logical Record Length (LRECL) will be 2,472 bytes.

HTI has no special sort requirements for the packs sent by BellSouth.

4.9 Dataset Naming Convention

BellSouth will transmit the usage to HTI using the following dataset naming conventions. The dataset name (DSN) will be partitioned into five nodes, separated by periods as follows:

NODE 1BB3PXNN*
NODE 2.IBMUP
NODE 3 (To be determined during negotiations)
NODE 4.USAGE

NODE 5.GNNNW* (Generational Dataset to be incremented by sender).
*The italicized "N" represents numeric fields determined during negotiations.

4.10 Control Reports

HTI accepts input data provided by BellSouth in EMR format in accordance with the requirements and specifications detailed in this section of the attachment. In order to ensure the overall integrity of the usage being transmitted from BellSouth to HTI, data transfer control reports will be required. These reports shall be provided by HTI to BellSouth on a daily or otherwise negotiated basis and reflect the results of the processing for each pack transmitted by BellSouth.

4.11 Message Validation Reports

HTI will provide the following three (3) daily (or otherwise negotiated) Message Validation reports to the designated BellSouth System Control Coordinator. These reports will be provided for all data received within BellSouth Local Resale Feed and will be transmitted Monday through Friday whether or not there have been any files transmitted.

4.11.1 Message Validation Pack Reject Report (A7287)

This report provides information on packs rejected by HTI. It lists the header and trailer record of each rejected pack and indicates the error codes and the associated error message which explains why the pack was rejected.

An example of the report and a list of Valid Error Codes and associated error messages are provided in Subappendix B hereto.

4.11.2 Message Validation Pack Accepted Report (A7288)

This report provides vital statistics and control totals by Record ID, Type of Service, Message Counts and Record Counts, for all valid, rejected and

dropped messages. The information is provided in the following report formats and control levels:

- 1. BellSouth Total Messages
- 2. BellSouth Total Records
- 3. RAO Total Messages
- 4. RAO Total Records
- 5. Pack Total (Record Counts and Message Counts)

The first four report formats include percentages that indicate the relationship of the daily input volume by Record ID and Type of Record to the total input volume provided by an RAO and BellSouth.

An example of the report is provided in Subappendix C hereto.

4.11.3 Message Validation Detail Error Report (A7289)

An EMR detailed error report is generated for each pack/ invoice that is received and processed by HTI. The report lists, in vertical format, the complete 175 byte EMR record that has failed to pass the initial edit criteria. It prints this detailed information only for the first five EMR records that share a common error condition. The error condition is flagged on the report by one of two possible error codes preceding the field value. The error codes are:

- (C) DENOTES CRITICAL ERRORS
- (I) DENOTES INFORMATION ERRORS

The last two pages of the report for a given pack/invoice provide the following control totals:

Total Errors for each Field
Total Records Received
Total Records Dropped
Total Records Rejected to MIU
Pack Reject Rate
Total Default Count (represents the number of Files on all of the input records that had to be programmatically altered to meet the EMR

standards and specifications.)

If the entire pack/invoice has been rejected because of a Critical Error Rate greater than 0.5%, the last page of the report will display such a statement enclosed in asterisks.

An example of the report is provided in Subappendix D hereto.

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4.11.4 Control Reports - Distribution

Since BellSouth is not receiving control reports, dataset names will be established during detailed negotiations.

SECTION IV: HTI PROCESSING REQUIREMENTS

General

This section contains requirements for HTI processing of Recorded Usage Data that has been transmitted to HTI for billing.

HTI Rating Process

2.1 Message Rating

HTI will rate any individual messages (as defined in Section II of this Appendix), that have not already been rated by BellSouth, prior to transmitting the usage to a billing environment within HTI.

2.2 Application Of Taxes/Fees/Surcharges

HTI will apply taxes, fees and surcharges as appropriate for the individual messages and/or customer accounts. The application of all taxes, fees and surcharges will be applied on all intraLATA local and toll usage received from BellSouth.

2.3 Duplicate Messages

HTI has existing duplicate checks as part of their message processing or billing functions. HTI will perform these checks on the rated/unrated messages sent pursuant to BellSouth duplicate message disposition procedures and reports will be identified by HTI during negotiations.

2.4 Record Edits

2.4.1 HTI Record Edits

See Appendix II, Section II, Paragraph 2.1.1. HTI will perform detailed record edits on the rated and unrated messages prior to transmitting them to the billing environment.

2.4.2 BellSouth Record Edits

If BellSouth has existing detailed record edits for rated and unrated messages, BellSouth is to perform these edits.

See Appendix II, Section II, Paragraph 2.1.1

2.4.3 HTI To BellSouth Message Returns

See Appendix II, Section II, Paragraph 2.1.1.

2.4.4 Cancel/Correction Records

HTI, upon receipt of cancel/correction records, will perform their current matching functionality to identify the original message to be canceled/corrected. (Processing will be dependent upon individual negotiations.)

SECTION V: TEST PLANS AND ACTIVITIES

General

This section defines BellSouth and HTI activities which are required prior to implementation. The tests and activities described are necessary to ensure a smooth, accurate and well-programmed conversion. Specific test dates will be identified through the negotiations process.

2. Interface Testing

The purpose of this test is to ensure that the usage described in Section II of this Appendix preceding can be sent by BellSouth to HTI and can be accepted and processed by HTI. BellSouth will provide a test file to HTI's designated Regional Processing Center (RPC) in the format that will be used for live day-to-day processing. The file will contain that production Data Usage that HTI and BST agree upon. The format of the file will conform to the requirements shown in Section III. HTI will review the file and verify that it conforms to its data center requirements. HTI will notify BellSouth in writing whether the format is acceptable. HTI will also provide BellSouth with the agreed-upon control reports as part of this test.

Operational Test

The purpose of this test is to ensure that volumes of usage in consecutive sequence can be extracted, distributed, and processed by BellSouth and HTI.

BellSouth is required to provide HTI with BellSouth recorded, unrated usage (as defined in Section II of this Appendix) for a minimum of five (5) consecutive days. HTI will provide BellSouth with the message validation reports associated with test usage.

HTI will rate and process the unrated intraLATA toll and local usage. HTI will process this data to test bills. HTI may request that the test usage contain specific usage volumes and characteristics to ensure a complete test. Specific usage volumes and characteristics will be discussed during detailed negotiations.

Test File

Test data should be transported via CONNECT:Direct whenever possible. In

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the event that courier service must be used to transport test media, the physical tape characteristics to be used are described in Subappendix A hereto.

SECTION VI: POST DEPLOYMENT ACTIVITIES

General

Requirements for ongoing maintenance of the usage feeds between HTI and BellSouth are described in this section. Included are minimal requirements for day to day control of the regularly scheduled transfer of BellSouth unrated and rated usage data and procedures for introducing and verifying HTI/BellSouth System Changes.

2. Control Maintenance And Review

2.1 Periodic Review

Control procedures for all usage transferred between BellSouth and HTI will require periodic review. This review may be included as part of an annual audit of BellSouth by HTI or as part of the normal production interface management function. Breakdowns which impact the flow of usage between BellSouth and HTI must be identified and jointly resolved as they occur. The resolution may include changes to control procedures, as similar problems would be avoided in the future. Any changes to control procedures would need to be mutually agreed upon by HTI and BellSouth.

2.2 Retention of Records

BellSouth shall maintain a machine readable back-up copy of the message detail provided to HTI for a minimum of forty-five (45) calendar days. HTI will maintain the message detail received from BellSouth for a minimum period of forty-five (45) calendar days. Designated HTI personnel will provide these records to BellSouth or its authorized agents upon written request. BellSouth will also provide any data back to HTI upon their written request.

BellSouth Software Changes

When BellSouth plans to introduce any software changes which impact the format or content structure of the usage data feed to HTI, designated BellSouth personnel will notify HTI no less than one hundred twenty (120) calendar days before such changes are implemented.

BellSouth will communicate the projected changes to the appropriate groups in HTI so that potential impacts on HTI processing can be determined.

HTI personnel will review the impact of the change on the entire control structure as described in Appendix II Section 5, Post Conversion Test Plan, herein. HTI will negotiate any perceived problems with BellSouth and will arrange to have the data tested utilizing the modified software.

If it is necessary for BellSouth to request changes in the schedule, content or format of usage data transmitted to HTI, BellSouth will notify HTI.

3.1 HTI Requested Changes

If it is necessary for HTI to request changes in the schedule, content, or format of the usage data transmitted from BellSouth, HTI will notify BellSouth.

When the negotiated changes are to be implemented, HTI and/or BellSouth will arrange for testing of the modified data as described in Appendix II, Section 5, Post Conversion Test Plan.

4. HTI Software Changes

When HTI plans to introduce any software changes which may impact the format or content structure of the usage data transmitted from BellSouth, HTI will notify the designated BellSouth personnel, no less than one hundred twenty (120) calendar days before such changes are implemented.

The HTI contact will communicate the projected changes to the appropriate groups in BellSouth so that potential impacts on BellSouth processing can be determined.

HTI will negotiate any perceived problems with BellSouth and will arrange to have the data tested utilizing the modified software.

Altering the one hundred twenty (120) day window for introducing software changes can be negotiated by both companies, dependent upon the scope and impact of the change.

Post-Conversion Test Plan

The test plan described below is designed to encompass all types of changes to the usage data transferred by BellSouth to HTI and the methods of transmission for that data.

5.1 BellSouth System Change Description

For a BellSouth system change, BellSouth shall provide HTI with an overall description of the change, stating the objective and a brief explanation of the reasons for the change.

During the initial negotiations regarding the change, BellSouth shall provide a list of the specific records and/or systems impacted by the change to designated HTI personnel.

Finally, BellSouth shall also provide HTI a detailed description of the changes to be implemented. It shall include sufficient detail for designated HTI personnel to analyze and estimate the effects of the changes and to design tests to verify the accuracy of the implementation.

5.2 Change Negotiations

HTI shall be notified in writing of all proposed negotiations initiated by BellSouth. In turn, HTI will notify BellSouth of proposed change negotiations initiated by HTI.

After formal notification of planned changes, whether originated by BellSouth or HTI, designated HTI personnel will schedule negotiation meetings as required with designated BellSouth personnel. The first meeting should produce the overall change description (if not previously furnished) and the list of records and/or systems affected.

In subsequent meetings, BellSouth shall provide the detailed description of changes to be implemented. After reviewing the described changes, designated HTI personnel will negotiate a detailed test procedure with BellSouth.

5.3 Control Change Analysis

Based on the detailed description of the changes provided by BellSouth, and the review of the projected changes by HTI, designated HTI personnel will:

- 5.3.1 Determine the impact of the changes on the overall structure.
- 5.3.2 Determine whether any single change has a potential control impact (i.e., high error rate on individual records that might result in pack rejection);
- 5.3.3 Determine whether any controls might be adversely affected; and
- 5.3.4 Arrange for appropriate control structure changes to meet any of the above conditions.

5.4 Verification Of Changes

- 5.4.1 Based on the detailed description of changes furnished by BellSouth, designated HTI personnel will:
- 5.4.1.1 Determine the type of change(s) to be implemented.
- 5.4.1.2 Develop a comprehensive test plan.
- 5.4.1.3 Negotiate scheduling and transfer of modified data with BellSouth.
- 5.4.1.4 Negotiate testing of modified data with the appropriate HTI RPC.
- 5.4.1.5 Negotiate processing of verified data through the HTI billing system with the RPC.
- 5.4.1.6 Arrange for review and verification of testing with appropriate HTI groups.
- 5.4.1.7 Arrange for review of modified controls, if applicable.
- 5.5 Introduction of Changes
- 5.5.1 When all the testing requirements have been met and the results reviewed and accepted, designated HTI personnel will:
- 5.5.1.1 Negotiate an implementation schedule.
- 5.5.1.2 Verify the existence of a contingency plan with the appropriate HTI personnel.
- 5.5.1.3 Arrange for the follow-up review of changes with appropriate HTI personnel.
- 5.5.1.4 Arrange for appropriate changes in control program, if applicable.
- 5.5.1.5 Arrange for long-term functional review of impact of changes on the HTI billing system, i.e., accuracy, timeliness, and completeness.

SECTION VII: SUBAPPENDICES

SUMMARY OF SUBAPPENDICES

Subappendix A

Physical Characteristics Of Data Tapes/ Cartridges

Subappendix B - DELETED

Subappendix C

Message Validation Pack Accepted Report (A7288)

Subappendix D

Message Validation EMR Detail Error Report (A7289)

Subappendix E

Special Features Star Services

Subappendix F

Carrier from which HTI will buy messages

Subappendix G

Types or Messages

Subappendix H

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Subappendix I

Subappendix J

Subappendix K

SUBAPPENDIX A

PHYSICAL CHARACTERISTICS OF DATA TAPES/CARTRIDGES

Data transported to HTI by the BellSouth, or to the BellSouth by HTI, on tape or cartridge via a courier will have the following physical characteristics:

Tape:

9-track, 6250 (or 1600) BPI (Bytes per inch)

Cartridge:

38,000 BPI (Bytes per inch)

LRECL:

2,472 Bytes

Parity:

Odd

Character Set:

Extended Binary Coded Decimal Interchange

Code (EBCDIC)

External labels:

Exchange Carrier Name, Dataset Name (DSN)

and volume serial number

Internal labels:

IBM Industry OS labels will be used. They

consist of a single volume label and two sets of

header and trailer labels.

One file per sending location with variable

length records

104 bytes EMR compacted format plus modules

as applicable.

SUBAPPENDIX B

SUBAPPENDIX C

MESSAGE VALIDATION PACK REJECT REPORT (A7287)

MM/DD/YY HH:MM:SS

RETEN CODE: 01R-00300

COMPANY	XXXXXXX	XXXXXXXXXXXX	xxxxxxxxxxxxxx	XXXXXXXXXXXX	XXX REMO	TE ID 9999X	FROM BSID 999
HEADER	RECORD ID 999999	DATE CREATED 99-99-99	INVOICE NUMBER 99	BELL CO ID 99	BELL RAO 999	IX CARRIER 999	IND CO ID 9999
TO	TAL REC.						
TRAILER	RECORD ID	DATE CREATED	INVOICE NUMBER	BELL CO ID	BELL RAO	IX CARRIER	IND CO ID
99,9	999999 999	99-99-99	99	99	999	999	9999

ERRORS ERROR CODE ERROR MESSAGE

EC99.9

SUBAPPENDIX C (CONT'D) MESSAGE VALIDATION PACK REJECT REPORT (A7287)

ERROR CODE	ERROR MESSAGES
EC01.2	First record after trailer is not a Pack Header.
EC03.2	From RAO is not numeric.
EC04.3	Invoice number on header invalid.
EC04.5	Company ID not numeric.
EC04.6	Independent company ID is not numeric.
EC04.7	Header Record ID is invalid.
EC04.8	Trailer Record ID is invalid.
EC04.9	Trailer Record count invalid.
EC05.0	Duplicate pack.
EC05.1	Old Pack.
EC05.2	RAO not found on table.
EC07.3	Error rate greater than invoice file threshold for RAO
	invoice number.
EC12.0	Remote ID in Dataset is not valid
EC20.0	No detail records in pack
EC13.0	Invalid status on Pack Header
EC27.0	Pack exceeds limit of 9,999 detail records.
EC40.9	Pack Header record is missing.
EC41.0	Trailer record is missing.
EC42.0	Trailer message volume is not equal to
	accumulated message volume.
EC44.0	Header/Trailer date is invalid.
EC45.0	From RAO on Trailer Record is not equal to the from RAO
	on Header Record
EC48.0	Invoice number on Trailer Record is not equal to the
	invoice number on the Header Record

SUBAPPENDIX D - MESSAGE VALIDATION PACK ACCEPTED REPORT (A7288) MM/DD/YY------HH:MM:SS RETEN CODE: 01R-00300

				RE	TEN CO	DE: 01	R-00300)			
COMPAN	TOTAL RE	CORDS RE					M RAO	INVOICE	201000 00 070	DATE CRE	
	ZZ.ZZ		***************************************			999		99	N	MM/DD/YY	
				MESSAGE CO	OUNTS					RECORD	COUNTS
RECORD	ID DROPPE		TYPE OF RE	CORDVALID-	REJE	CTED	DROPP	EDTO	TAL	VALID	REJECTED-
010102	ZZ.ZZZ9	OI ZZ.ZZZ9	JTWATS (NO	N-SMDR)ZZ.Z	Z29 Z	Z.ZZ9	ZZ	.ZZ9	ZZ.ZZ9	ZZ.Z	ZZ9 ZZ.ZZZ
010103	ZZ.ZZZ9	ZZ ZZZ9	OUTWATS (S	SMDR)ZZ.ZZ9	ZZ.Z	Z9	ZZ.ZZ	29 ZZ	ZZ9	ZZ.ZZZ	9 ZZ ZZZ9
010104	ZZ.ZZZ9 TOTAL WA	ZZ.ZZZ9 TS/800	800 SERV	ICEZZ ZZ9	ZZ.ZZ9		ZZ.ZZ9	ZZ.ZZ	.9 2	ZZ.ZZZ9	ZZ.ZZZ9
010101	ZZ ZZ9	ZZ.7779	MTS ZZ ZZZ9	72.7779	77 777	70		ZZ	ZZ9	ZZ.ZZ9	ZZ.ZZ9
010106	ZZ.ZZZ9		I-DIAL CONFE			ZZ.ZZ9		ZZ.ZZ9	ZZ.ZZ	9 ZZ	ZZZ9
010107	ZZ ZZZ9		IAL CONFER	LEG RECORI	OZZ.ZZ9	ZZ.Z	Z 9	ZZ.ZZ9	ZZ	ZZ9	ZZ ZZZ9
010108	ZZ ZZZ9		CONFEREN	CE BRIDGEZ	Z.ZZ9	ZZ.ZZ9	1	ZZ.ZZ9	ZZ.ZZ	9 ZZ	ZZZ9

10

010111			ALLIANCE (AGTC)ZZ ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ ZZ9	77 7770	,
010116	ZZ.ZZZ9	ZZ.ZZZ9	10 10 10 10 10 10 10 10 10 10 10 10 10 1			LLLLS	ZZ.ZZZ9	ZZ ZZZ9
	ZZ.ZZZ9	ZZ.ZZZ9	DIAL-IT SERVICEZZ.ZZ9	ZZ ZZ9	ZZ ZZ9	ZZ ZZ9	ZZ.ZZZ9	ZZ.ZZZ9
010132	ZZ.ZZZ9	DIF ZZ.ZZZ9	RECTORY ASSISTANCEZZ. ZZ.ZZZ9	ZZ9 ZZ.Z	Z9 ZZ Z	Z9 ZZ.Z	Z9 ZZ.Z	ZZ9
010180			MARINE/AIRCRAFTZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ ZZ9	ZZ.ZZZ9	77 7770
010181	ZZ.ZZZ9	ZZ.ZZZ9	RADIO LINKZZ.ZZ9	ZZ ZZ9				ZZ ZZZ9
040400	ZZ.ZZZ9	ZZ.ZZZ9			ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZZ9	ZZ ZZZ9
010182	ZZ.ZZZ9	MARINE ZZ.ZZZ9	NON-DIAL CONFER BRIDG ZZ.ZZZ9	EZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZZ9
010183	77 7770	MARINE N	NON-DIAL CONFER LEG R	EC.ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ ZZZ9
0101XX	ZZ.ZZZ9	ZZ.ZZZ9 O	ZZ.ZZZ9 THER MTS RECORDSZZ.Z	Z9 ZZ.ZZ	9 ZZ.ZZ	0 77.77		
TOTAL N	ZZ.ZZZ9 IORTH AME	ZZ.ZZZ9		22.22	22.22	9 ZZ.ZZ	9 ZZ ZZ	Z9 ZZ.ZZZ9
TOTAL	OKIHAME	RICAN MIS	<u>.</u>					
010201			IOTO/IDDD MT077 770					
	ZZ.ZZZ9	ZZ.ZZZ9	IOTC/IDDD MTSZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ ZZZ9	ZZ.ZZZ9
0102XX	ZZ.ZZZ9	ZZ.ZZZ9	OTC/IDDD OTHERSZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZZ9	ZZ.ZZZ9
010301			IOTC BFC MTSZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ ZZZ9	ZZ.ZZZ9
0103XX	ZZ.ZZZ9	ZZ.ZZZ9	IOTC BFC OTHERSZZ ZZ9	ZZ ZZ9	ZZ.ZZ9	77.770		
010401	ZZ.ZZZ9	ZZ.ZZZ9		ZL.ZZ3	22.229	ZZ.ZZ9	ZZ.ZZZ9	ZZ.ZZZ9
010401	ZZ.ZZ9	ZZ.ZZZ9	IOC MTS ZZ ZZZ9 ZZ ZZZ9	ZZ.ZZZ9		ZZ.ZZ9	ZZ.ZZ9	ZZ ZZ9
0104XX	ZZ.ZZZ9	ZZ.ZZZ9	IOC OTHERSZZ ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZZ9	ZZ.ZZZ9
010501		LL.LLLS	IOC MTS			ZZ.ZZ9	ZZ.ZZ9	77 770
0105XX	ZZ.ZZ9	ZZ.ZZZ9	ZZ.ZZZ9 ZZ.ZZZ9 IOC OTHERSZZ.ZZ9	ZZ.ZZZ9	77 774		151	ZZ.ZZ9
2.007.01	ZZ.ZZZ9	ZZ.ZZZ9	IOC OTHERSZZ,ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZZ9	ZZ.ZZZ9

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015002 ZZ.2		VATS LINE SUMN ZZ.ZZZ9	MARYZZ ZZ9	ZZ ZZ9	ZZ ZZ9	ZZ ZZ9	ZZ ZZZ	2 9
015004 ZZ.Z	80	00 LINE SUMMAR	YZZ ZZ9	ZZ ZZ9	ZZ ZZ9	ZZ ZZ9	ZZ ZZZ9	ZZ ZZZ9
015032 ZZ.Z	DIR. ASS	ISTANCE LINE SI	UMMARYZZ	ZZ9 ZZ.ZZ9	ZZ	ZZ9 ZZ.Z	ZZ9 ZZ	ZZZ9
TOTAL OVER		ZZ.ZZZ9						
03XXXX	The same of the sa	REDIT REQUEST	SZZ ZZ9	ZZ ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ.ZZZ9	ZZ ZZZ9
ZZ.Z 51/52	CA	ANCEL REQUEST	SZZ.ZZ9	ZZ.ZZ9	ZZ.ZZ9	ZZ ZZ9	ZZ ZZZ9	ZZ ZZZ9
71/72 ZZ.Z	LL-LLL	RECTION REQUE	STS77 779	ZZ.ZZ9	ZZ ZZ9	ZZ. ZZ9		
ZZ.Z		ZZ.ZZZ9	779	LLILLO	ZZ.ZZ3		ZZ ZZZS	
ZZ.Z	ZZ9	=======================================				ZZ	ZZZ9	ZZ.ZZZ9
PACK TOTALS		ZZ.ZZ9	ZZ.ZZ9ZZ.Z	.Z9 ZZ.ZZ	29 ZZ.Z	ZZ9 ZZ.ZZ	779 77	7779

SUBAPPENDIX E

PAPER COPY OF THIS REPORT TO BE PROVIDED

SUBAPPENDIX E SPECIAL FEATURES STAR SERVICES

The following are STAR Services supported by these Local Resale requirements to date. When identified, additional services can be negotiated to be included in this Resale offer.

1)	Busy Redial/ Last Number Redial	This feature allows a customer to redial a number when a Busy signal is encountered.
2)	Call Return/Missed Call Dialing	This feature allows a customer to automatically return the most recent incoming call, even if it is not answered.
3)	Call Trace	This feature allows the tracing of nuisance calls.
4)	3-Way Calling	This feature allows for three (3) Parties to communicate on one line.
5)	Automatic Redial	This feature allows a customer to automatically redial the last number dialed.

To provide for the transfer and billing of these features the following requirements apply:

For all "per use" STAR Features the 'Miscellaneous Charge Line Summary Non-Detail Charge' 425001 record should be used and be populated as follows:

CONNECT TIME	POSITIONS 55 - 60	MUST BE POPULATED
MISCELLANEOUS TEXT CODE	POSITIONS 168 - 172	1) BUSY REDIAL/LAST NUMBER REDIAL
MISCELLANEOUS *TEXT CODE	POSITIONS 168 - 172	POPULATE WITH '00001' 2) CALL RETURN/LAST NUMBER REDIAL
MISCELLANEOUS TEXT CODE	POSITIONS 168 - 172	POPULATE WITH '00002' 3) CALL TRACE
MISCELLANEOUS TEXT CODE	POSITIONS 168-172	POPULATE WITH "00003" 4) 3-WAY CALLING
MISCELLANEOUS TEXT CODE	POSITIONS 168-172	POPULATE WITH '00004' 5) AUTOMATIC REDIAL
I		POPULATE WITH '00005'

NOTE: For fields not specifically defined, the standard EMR format for a 425001 record should be used.

SUBAPPENDIX F

Subappendix F sets forth the Carrier from which HTI will buy messages:

BellSouth

SUBAPPENDIX G

Subappendix G sets forth the types of messages for which HTI will provide the Services.

INTRALATA LOCAL AND TOLL COLLECT
INTRALATA LOCAL AND TOLL BILLED TO THIRD NUMBER
INTRALATA LOCAL AND TOLL CALLING CARD

SUBAPPENDIX H

PURCHASE OF ACCOUNTS RECEIVABLE RATE: 100%

BILLING AND COLLECTIONS RATES:

.05 per message

SUBAPPENDIX I

Subappendix I sets forth the Carrier from which BellSouth will buy messages:

HTI

SUBAPPENDIX J

MESSAGES

Subappendix J sets forth the types of messages for which BellSouth will provide the Services.

LOCAL INTRAREGION AND TOLL COLLECT

LOCAL INTRAREGION AND TOLL BILLED TO THIRD NUMBER

LOCAL INTRAREGION AND TOLL CALLING CARD

SUBAPPENDIX K

RATES

PURCHASE OF ACCOUNTS RECEIVABLE RATE: 100%

BILLING AND COLLECTIONS RATES:

.05 per message

Attachment 8

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2. Interim Number Portability (INP)	1
3. Permanent Number Portability (PNP)	3
4. Requirements for INP and PNP	3

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LOCAL NUMBER PORTABILITY

BellSouth Provision of Local Number Portability

BellSouth shall provide number portability in accordance with requirements of the Act. Interim Number Portability (INP) will be provided by BellSouth to HTI, immediately upon the Effective Date of this Agreement. INP will be provided with minimum impairment of functionality, quality, reliability and convenience to subscribers of HTI services. BellSouth will provide PNP as soon as it is technically feasible, in conformance with FCC rules, the Act, and the Florida Public Service Commission.

1.A HTI Provision of Local Number Portability

Upon request by BellSouth, HTI shall provide number portability in accordance with the requirements of the Act and the Florida Public Service Commission. BellSouth and HTI shall negotiate in good faith HTI's provisions of INP to BellSouth consistent with BellSouth's actual requirements and HTI's technical capabilities.

2. Interim Number Portability (INP)

INP shall be provided by Remote Call Forwarding ("RCF"), Route Indexing, or Local Exchange Routing Guide (LERG) reassignment. In addition to providing RCF, BellSouth agrees to provide Route Indexing and LERG reassignment in every local service office. Pricing for INP alternatives, if any, shall be as set forth in Part IV of the General Terms and Conditions of this Agreement. HTI shall specify on a per telephone number basis which method is to be employed and BellSouth shall provide such method to the extent technically feasible.

2.1 Remote Call Forwarding

Remote Call Forwarding (RCF) is an existing switch-based BellSouth service that may be used to provide subscribers with limited service-provider LNP by redirecting calls within the telephone network. When RCF is used to provide LNP, calls to the ported number will first route to the BellSouth switch to which the ported number was previously assigned. The BellSouth switch will then forward the call to a number with an NXX associated with the HTI operated switch to which the number is ported. HTI shall be required to order, additional paths to handle multiple simultaneous calls to the same ported telephone number.

2.2 Route Indexing

Route Indexing (RI) may take two forms: Route Index-Portability Hub (RI-PH) or Directory Number-Route Index (DN-RI).

- 2.2.1 RI-PH will route a dialed call to the BellSouth switch associated with the NXX of the dialed number. The BellSouth switch shall then insert a prefix onto the dialed number which identifies how the call is to be routed to HTI as the local service provider. The prefixed dialed number is transmitted to the BellSouth tandem switch to which HTI is connected. The prefix is removed by the operation of the tandem switch and the dialed number is routed to HTI's switch so the routing of the call can be completed by HTI.
- 2.2.2 DN-RI is a form of RI-PH that requires direct trunking between the BellSouth switch to which the ported number was originally assigned and the HTI switch to which the number has been ported. The BellSouth switch shall send the originally dialed number to the HTI switch without a prefix.
- 2.2.3 BellSouth shall provide RI-PH or DN-RI on an individual telephone number basis, as HTI designates. Where technically feasible, HTI may designate both methods so that calls to ported numbers are first directed to the HTI switch over direct trunks but may overflow to tandem trunks if all trunks in the direct group are occupied.
- 2.2.4 For both RI-PH and DN-RI the trunks used may, at HTI's option, and where technically feasible, be the same as those used for exchange of other local traffic and intraLATA toll traffic with BellSouth. At HTI's option, the trunks shall employ SS7 or in band signaling.

2.3 LERG Reassignment

Portability for an entire NXX: Local Exchange Routing Guide (LERG). reassignment of an entire NXX can be via per occasion agreements among BellSouth, HTI and the LERG administrators. Updates to translations in the BellSouth switching office from which the telephone number is ported will be made by BellSouth prior to the date on which LERG changes become effective, in order to redirect calls to the HTI switch via route indexing.

2.4 Other Interim Portability Provisions

2.4.1 BellSouth shall exchange with HTI, SS7 TCAP messages as required for the implementation of Custom Local Area Signaling Services (CLASS) or other features available in the BellSouth network.

- 2.4.2 BellSouth shall notify HTI of any technical or capacity limitations that would prevent use of a requested interim LNP implementation in a particular switching office. BellSouth and HTI shall cooperate in the process of porting numbers to minimize customer out-of-service time.
- 2.4.2.1 For a coordinated cutover environment (where the loop is being purchased by HTl as an unbundled network element at the time of INP implementation), BellSouth shall update switch translations, where necessary, as close to the requested time as possible, using best efforts not to exceed thirty (30) minutes after the physical cutover is completed.
- 2.4.2.2 For a non-coordinated cutover environment (where the loop is supplied by HTI), BellSouth shall schedule a mechanized update of switch translations at the HTI requested cutover time (frame due time). In the event that HTI requires a change to the requested cutover time, HTI shall notify the BellSouth Local Carrier Service Center a minimum of three (3) hours prior to the frame due time to arrange for a new frame due time. BellSouth shall update switch translations where necessary as close to the requested time as possible, using best efforts not to exceed thirty (30) minutes after the physical cutover is completed.
- 2.4.3 HTI shall have the right to use the existing BellSouth 911 infrastructure for all 911 capabilities. With respect to 911 service associated with ported numbers under INP, BellSouth agrees that all ported directory numbers (DN) will remain in the Public Service Answering Points (PSAP) routing databases. When RCF is used, both the ported numbers and shadow numbers for HTI ported subscribers shall be stored in PSAP databases. HTI shall have the right to verify the accuracy of the information in the PSAP databases.
- 2.4.4 BellSouth shall bill and HTI shall pay the rates set forth in Part IV of this Agreement for INP. Billing and payment shall be in accordance with the applicable terms and conditions set forth in this Rates Agreement.

3. Permanent Number Portability (PNP)

PNP is currently being worked in industry forums. The results of these forums will dictate the industry direction of PNP. BellSouth agrees to implement PNP as directed by the FCC in FCC Docket 95-116 and the appropriate industry forums.

Requirements for INP and PNP

4.1 White and Yellow Page Listings

Pursuant in Section 20 of the General Terms and Conditions of the Agreement, BellSouth shall provide and maintain for HTI one (1) white page and one (1) yellow page (if applicable) listing for each HTI subscriber that has ported its number from BellSouth, consistent with that specified for Provisioning in this Agreement. The listing and handling of listed and nonlisted telephone numbers will be at least at parity with that provided by BellSouth to its own subscribers.

4.2 DELETED

4.3 Testing

BellSouth and HTI shall cooperate in conducting HTI's testing to ensure interconnectivity between systems. BellSouth shall inform HTI of any system updates that may affect the HTI network and BellSouth shall, at HTI's request, perform tests to validate the operation of the network. Additional testing requirements may apply as specified by this Agreement.

4.4 Non-Geographical Numbers

BellSouth shall not be required to provide number portability for nongeographic services (e.g., 500 and 900 NPAs, and 976 NXX number services) under this Agreement.

4.5 Engineering and Maintenance

BellSouth and HTI will cooperate to ensure that performance of trunking and signaling capacity is engineered and managed at levels which are at least at parity with that provided by BellSouth to its subscribers and to ensure effective maintenance testing through activities such as routine testing practices, network trouble isolation processes and review of operational elements for translations, routing and network fault isolation. Additional specific engineering and maintenance requirements shall apply as specified in this Agreement.

- 4.6 BellSouth shall provide HTI with accurate billing and Customer Account Record Exchange data for HTI subscribers whose numbers have been ported.
- 4.6.1 DELETED
- 4.6.2 DELETED
- 4.6.3 DELETED
- 4.6.4 DELETED

4.7 Operator Services and Directory Assistance

With respect to operator services and directory assistance associated with LNP for HTI subscribers, BellSouth shall provide the following:

- 4.7.1 While INP is deployed and prior to conversion to PNP:
- 4.7.1.1 If requested by HTI, BellSouth shall provide Emergency Interrupt (EI)
 Trunks to the HTI End Office for BLV/BLI call requests for lines that
 terminate at the HTI End Office.
- 4.7.1.2 When a BLV/BLI request for a ported number is directed to a BellSouth operator and the query is not successful (i.e., the request yields an abnormal result), the operator shall confirm whether the number has been ported and shall direct the request to the appropriate operator.
- 4.7.1.3 When a customer chooses HTI as its local services provider and as a result such customer's number is ported to HTI, BellSouth shall remove from its Line Information Data Base (LIDB) all existing BellSouth issued Telephone Line Number (TLN)-based card numbers when a customer ports their number to HTI.
- 4.7.1.4 BellSouth shall allow HTI to order provisioning of TLN calling cards and Billed Number Screening (BNS), in its LIDB, for ported numbers, as specified by HTI. BellSouth shall continue to allow HTI access to its LIDB. Other LIDB provisions are specified in this Agreement.
- 4.7.1.5 Where BellSouth has control of directory listings for NXX codes containing ported numbers, BellSouth shall maintain entries for ported numbers as specified by HTI.
- 4.7.2 DELETED
- 4.7.2.1 **DELETED**
- 4.7.2.2 **DELETED**
- 4.7.2.3 **DELETED**
- 4.7.2.4 **DELETED**

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Attachment 9

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	PA	GE
NETWORK SECURITY		1
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NETWORK SECURITY

Protection of Service and Property

BellSouth shall exercise the same level of care it provides itself to prevent harm or damage to HTI, its employees, agents or customers, or their property. BellSouth agrees to take reasonable and prudent steps to ensure the adequate protection of HTI property located within BellSouth Premises including, but not limited to:

- 1.1 Restricting access to HTI equipment, support equipment, systems, tools and data, or spaces which, contain or house HTI equipment enclosures, to HTI employees and other authorized non-HTI personnel to the extent necessary to perform their specific job function.
- 1.2 Assuring that the physical security and the means of ingress and admission to spaces that house HTI equipment or equipment enclosures are equal to or exceed those provided for BellSouth pursuant to BellSouth Admissions Practices.
- 1.3 DELETED
- 1.4 DELETED
- 1.5 DELETED
- 1.6 DELETED
- 1.7 Limiting the keys used in its keying systems for spaces which contain or house HTI equipment or equipment enclosures to its employees and representatives for emergency access only. HTI shall further have the right to change locks on all spaces where deemed necessary for the protection and security of such spaces. In such an event, HTI shall provide BellSouth with replacement keys.
- 1.8 Insuring that doors that provide access to HTI equipment enclosures are equipped to protect against removal of hinge pins.
- 1.9 DELETED
- 1.10 DELETED
- 1.11 DELETED

1.12 Installing controls and logical security:

- to disconnect a user for a pre-determined period of inactivity on authorized ports;
- to protect customer proprietary information; and
- to databases to ensure both ongoing operational and update integrity.
- to assure that all approved system and modem access be secured through security servers and that access to or connection with a network element shall be established through a secure network or security gateway.
- to provide security in accordance with BellSouth BSP008-140-230BT (Design, Development, Maintenance and Administration Security Standards for Network Elements, Network Element Support Systems, and other Computer Systems.)

1.13 DELETED

2. Revenue Protection

- 2.1 Where BellSouth services are being resold and where HTI is using a BellSouth port, HTI will have the use of all present and future fraud prevention or revenue protection features, including prevention, detection, or control functionality embedded within any of the network elements available to BellSouth. These features include, but are not limited to, screening codes, call blocking of international, 800, 900, and 976 numbers.
- 2.2 The party causing a provisioning, maintenance or signal network routing error that results in uncollectible or unbillable revenues to the other party shall be liable for the amount of the revenues lost by the party unable to bill or collect the revenues less costs that would have been incurred from gaining such revenues. The process for determining the amount of the liability will be as set forth in Attachment 7, Section 6 of this Agreement.

Uncollectible or unbillable revenues resulting from the accidental or malicious alteration of software underlying Network Elements or their subtending operational support systems by unauthorized third Parties shall be the responsibility of the Party having administrative control of access to said Network Element or operational support system software to the extent such unbillable or uncollectible revenue results from the gross negligence or willful act or omission of the Party having such administrative control.

2.3 BellSouth shall be responsible for any uncollectible or unbillable revenues resulting from the unauthorized physical attachment to loop facilities from the Main Distribution Frame up to and including the Network Interface Device, including clip-on fraud to the extent such unbillable or uncollectible revenue results from the gross negligence or willful act or omission of BellSouth. BellSouth shall provide soft dial tone to allow only the completion of calls to final termination points required by law.

3. Law Enforcement Interface

BellSouth shall provide seven day a week/ twenty-four hour a day installation and information retrieval pertaining to traps, assistance involving emergency traces and information retrieval on customer invoked CLASS services, including call traces requested by HTI Security/Network services. BellSouth shall provide all necessary assistance to facilitate the execution of wiretap or dialed number recorder orders from law enforcement authorities.

Attachment 10 Page 1

ACRONYM	DEFINITION	
AAA	American Arbitration Association	
ABSBH	Average Busy Season Busy Hour	
ACD	Automatic Call Distributor	
AIN	Advanced Intelligent Network	
ALEC	Alternative Local Exchange Carrier	
ALI/DMS	Automatic Location Identification/Data Management	
	Systems	
AMA	Automated Message Accounting	
ANSI	American National Standards Institute	
ARPM	Average Revenue Per Message	
ARS	Automatic Route Selection	
ARU	Automatic Response Unit	
ATIS	Alliance for Telecom Industry Solutions	
ATM	Asynchronous Transfer Mode	
В	Bearer	
BACR	Billing Account Cross Reference	
BAN	Billing Account Number	
BAR	Billing Account Reference	
BICI	Broadband Inter-Carrier Interface	
BITS	Building Integrated Timing Supply	
BLV	Busy Line Verification	
BLV/ELI	Busy Line Verification/Emergency Line Interrupt	
BNS	Billed Number Screening	
BOC	Bell Operating Company	
BOS	Billing Output Specifications	
BRI	Basic Rate ISDN	
BRCS	Business and Residential Customer Service	
С	Network Element Combination	
C-DTTA	Combo of Dedicated Transport & Tandem	
C-LPLS	Combo of Loop & Local Switching	
CABS	Carrier Access Billing Systems	
CAMA ANI	Centralized Automatic Message Accounting - Automatic	
	Number Identification	
CAP	Competitive Access Provider	
CCITT	Consultative Committee on International Telegraph &	
	Telephone	
CCL	Common Carrier Line	
CCS	Communications Channel Signaling	
CCS7	Common Channel Signaling System 7	
CCSNIS	Common Channel Signaling Network Interface	
	Specification	
CI	Customer Interface	

010	Contact to Alfantia Conta	
CIC	Carrier Identification Code	
CF/B	Call Forward on Busy	
CF-B/DA	Call Forward on Busy/Don't Answer	
CF/DA	Call Forward Don't Answer	
CgPN	Calling Party Number	
CLASS	Custom Local Area Signaling Service	
CLASS/LASS	Customer Local Area Signaling Services	
CLC	Carrier Liaison Committee	
CLEC	Competitive Local Exchange Carrier	
CLLI	Common Language Location Identifier	
CMDS	Centralized Message Distribution System	
CMIP	Coded Mark Inversion Protocol	
CN	Charge Number	
CO	Central Office	
CPE	Customer Premises Equipment	
CRDD	Customer Requested Due Dates	
CSD	Circuit Switched Data	
CT	Common Transport	
CY	Current Year	
· D	Data	
DA	Directory Assistance	
DACS	Digital Access Crossconnect Systems	
DB	Database	
DB	Service Central Points/Databases	
DCC	Data Communications Channel	
DCMS	Digital Circuit Multiplication Systems	
DCS	Digital Cross-Connect System	
DDD	Desired Due Date	
DID	Direct Inward Dialing	
DLC	Digital Loop Carrier	
DLCI	Data Link Connection Identifier	
DMOQs	Direct Measures of Quality	
DN	Directory Numbers	
DN-RI	Directory Number - Route Index	
DS-1	Digital Signal Level One	
DS-3	Digital Signal Level Three	
DSAP	Due Date Support Application	
DS0	Digital Signal Level Zero	
DSI	Digital Speech Interpolation	
DSN	Data Set Name	
DSX	Digital Cross Connect	
DT	Dedicated Transport	
DTMF	Dual-Tone Multi Frequency	

Attachment 10 Page 3

DTN	Destination Talanham North	
E	Destination Telephone Number	
	Network Element	
E&M	Ear & Mouth Signaling	
E-LP	Element Loop	
EAMF	Equal Access Multi-Frequency	
EBCDIC	Extended Binary-Coded Decimal Interexchange Code	
EBI	Electronic Bonding Interface	
EDD	Envelope Delay Distortion	
EDI	Electronic Data Interchange	
EFT	Electronic Fund Transfer	
EI	Electronic Interface	
EI	Emergency Interrupt	
ELI	Emergency Line Interrupt	
ERL	Echo Return Loss	
EMR	Exchange Message Record	
EO	End Office	
ERMA	Engineering Records Mark-up and Assignment	
ES	Errored Second	
ESF	Extended Super Frame	
ESL	Essential Service Line	
ETTR	Estimated Time to Repair	
FCC	Federal Communications Commission	
FDI	Feeder Distribution Interface	
FN	Fiber Node	
FOC	Firm Order Confirmation	
FRF	Frame Relay Forum	
FUNI	Framebased User to Network Interface	
GTT	Global Title Translation	
HDBH	High-day Busy Hour	
HDT	Host Digital Terminal	
HFC	Hybrid Fiber Coax	
HFC-HDT	Hybrid Fiber Coax - Host Digital Terminal	
IBC	Initial Billing Company	
IC/M	Intelligent Loop Concentrator/Multiplexer	
ICS	Inter-Company Settlements	
ID	Remote Identifiers	
IEC	Interexchange Carrier	
IECs	Interexchange Carriers	
IEEE	Institute of Electrical and Electronic Engineers	
IISP	Interim Interswitch Signaling Protocol	
ILEC	Incumbent Local Exchange Carrier	
IMD	Intermodulation Distortion	
INA	Integrated Network Access	

Attachment 10 Page 4

INP	Interim Number Portability	
IPP	Independent Payphone Provider	
ISDN	Integrated Services Digital Network	
ISDNUP	Integrated Services Digital Network User Part	
ISNI	Intermediate Signal Network Identifier	
ISO	International Standardization Organization	
ISUP	Integrated Services User Part	
ITU	International Telecommunications Union	
IVMS	Interswitch Voice Messaging Service	
IXC	Interexchange Carriers	
LARG	LIDB Access Routing Guide	
LASS	Local Area Signaling Services	
LATA	Local Access Transport Area	
LC	Loop Concentrator/Multiplexor	
LCC	Line Class Code	
LCSC	Local Carrier Service Center	
LD	Loop Distribution	
LEC	Local Exchange Carrier	
LEC DA	LEC Directory Assistance	
LEC SCE	LEC Service Creation Environment	
LEC SCP	LEC Service Control Point	
LEC SMS	LEC Service Management System	
LEC SSP	LEC Service Switching Point	
LERG	Local Exchange Routing Guide	
LF	Loop Feeder	
LGX	Lightguide Cross-Connect	
LIDB	Line Information Data Base	
LMI	Local Management Interface	
LNP	Local Number Portability	
LOF	Loss of Frame	
LOS	Loss of Signal	
LP	Loop	
LRECL	Logical Record Length	
LRN	Local Routing Number	
LS	Local Switching	
LSO	Local Serving Office	
LSSGR	LATA Switching Systems Generic Requirements	
MDF	Main Distribution Frame	
MDU	Multiple Dwelling Unit	
MDU/BCL	Multiple Dwelling Unit/Business Customer Location	
MF	Multi-Frequency	
MIB	Management Information Base	
MLT	Mechanized Loop Tests	

Attachment 10 Page 5

МОР	Methods of Procedure	
MOS		
MPB	Modified Operator Services	
MR	Meet-Point Billing	
	Modification Request	
MRVT	MTP Routing Verification Test	
MSAG	Master Street & Address Guide	
MTP	Message Transfer Port	
MTTR	Mean Time to Repair	
MWI	Message Waiting Indicator	
NCS	National Communications System	
NEBS	Network Equipment Building System	
NEC	National Electronical Code	
NECA	National Exchange Carrier Association	
NESC	National Electrical Safety Code	
NGDLC	Next Generation Digital Loop Carrier	
NI	Network Interface Device	
NID	Network Interface Device	
NIU	Network Interface Unit	
NMS	Network Management System	
NNI	Network to Network Interface	
NSEP	National Security Emergency Preparedness	
NVT	Network Validation Test	
OAM	Operation and Maintenance	
OAM&P	Operations Administration Maintenance & Provisioning	
OBF	Open & Billing Forum	
ОС	Optical Carrier	
OSHA	Occupational Safety and Health Act	
ODS	Optical Distribution	
OLI	Originating Line Indicator	
OMAP	Operations, Maintenance & Administration Part	
OOF	Out-of-Frame	
ORT	Operational Readiness Test	
os	Operator Services	
OSPS	Operator Services Position System	
OSS	Operations Support Systems	
OSSGR	Operator Services Systems Generic Requirements	
OTS	Operator Transfer Service	
PBX	Private Branch Exchange	
PDD	Post Dial Delay	
PDH	Plesiochronous Digital Hierarchy	
PEC	Primary Exchange Carrier	
	, and and a surface	
PIC	Primary Interexchange Carrier	

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Attachment 10 Page 6

PNP	Permanent Number Portability	
POI	Point of Interface	
POI	Points of Interconnection	
POT	Point of Termination	
POTS	Plain Old Telephone Service	
PRI	Primary Rate Interface	
PSAP	Public Safety Answering Point	
PSD	Packet Switched Data	
P/SIMS	Products and Services Inventory Management System	
PSTN	Public Switched Telecommunications Network	
PUC	Public Utilities Commission	
RAO	Revenue Accounting Office	
RCF	Remote Call Forwarding	
RECFM	Record Format	
RI	Route Index	
RIC	Residual Interconnection Charges	
RI-PH	Route Index - Portability Hub	
ROW	Right of Way	
RPC	Regional Processing Center	
RSAG	Regional Street Address Guide	
RSM	Remote Switch Module	
RT	Remote Terminal	
SAG	Street Address Guide	
SBC	Subsequent Billing Company	
SCCP	Signaling Connection Control Point	
SCD	Signal Correlated Distortion	
SCE	Service Creation Environment	
SCP	Service Control Points	
SDH	Synchronous Digital Hierarchy	
SECAB	Small Exchange Carrier Access Billing	
SES	Severely Errored Second	
SFE	Short Failure Event	
SL	Signaling Link Transport	
SMDI	Standard Message Desk Interface	
SMDI-E	Standard Message Desk Interface - Enhanced	
SMS	Service Management System	
S/N	Signal-to-Noise Ratio	
SNMP	Simple Network Management Protocol	
SONET	Synchronous Optical Network	
SPOC	Single Point of Contact	
SPOI	Signaling Point of Interconnection	
SRVT	SCCP Routing Verification Test	
SS	SS7 Message Transfer & Connection Control	

Attachment 10 Page 7

SS7	Signaling System 7	
SSP	Switching Services Port	
STP	Signaling Transfer Point	
STPS	Signaling Transfer Point Switch	
STS	Synchronous Transport Signal	
SWF-DSI	Switched Functional DS1 Service Capability	
T&M	Time & Material	
TCAP	Transaction Capabilities Application Port	
TDEV	Time Deviation	
TDI	Tie Down Information	
TELRIC	Total Element Long Run Incremental Cost	
THDBH	Ten-High-Day Busy Hour	
TIA/EIA	Telecommunications Industries Association/Electronic	
	Industries Association	
TLN	Telephone Line Number	
TR	Technical Requirements	
TS	Tandem Switching	
TSG	Trunk Sub-Group	
TSGR	Transport System Generic Requirements	
TSLRIC	Total Service Long Run Incremental Cost	
TSP	Telecommunications Services Priority	
UI	Unit Intervals	
UNI	User to Network Interface	
VB	Variable Block	
VCI	Virtual Channel Identifier	
VF	Voice Frequency	
WDM	Wavelength Division Multiplex	
WTN	Working Telephone Number	

- "Act" means the Telecommunications Act of 1996.
- "Advanced Intelligent Network (AIN)" is a network functionality that permits specific conditions to be programmed into a switch which, when met, directs the switch to suspend call processing and to receive special instructions for further call handling instructions in order to enable carriers to offer advanced features and services.
- "Affiliate" is as defined in the Act.
- "Agreement" has the meaning set forth in Section 1 of the General Terms and Conditions.
- "AMA" means the Automated Message Accounting structure inherent in switch technology that initially records telecommunication message information. AMA format is contained in the Automated Message Accounting document, published by Bellcore as GR-1100-CORE which defines the industry standard for message recording.
- "Ancillary Functions" has the meaning set forth in Part 3 of the General Terms and Conditions.
- "Applicable Law" is as defined in Section 22.6 of the General Terms and Conditions.
- "Arbitrator(s)" is the person or persons selected by the Parties to serve as Arbitrator(s) for any dispute submitted to arbitration pursuant to the Dispute Resolution Process outlined in Attachment 1.
- "As Defined in the Act" means as specifically defined by the Act and as interpreted in the duly authorized rules and regulations of the FCC or Commission.
- "Automatic Location Identification/Data Management System (ALI/DMS)" means the emergency services (E911/911) database containing customer location information (including name, address, telephone number, and sometimes special information from the local service provider) used to determine to which Public Safety Answering Point ("PSAP") to route the call.
- "Automatic Route Selection (ARS)" is a service feature that provides for automatic selection of the least expensive or most appropriate transmission facility for each call based on criteria programmed into the system.
- "Bellcore" means Bell Communications Research, Inc.

- "BellSouth" has the meaning set forth in the preface.
- "BellSouth Customers" means any business or residence customer for BellSouth services.
- "Bill and Keep" is a reciprocal compensation arrangement whereby the compensation that one company offers to another for the completion of its calls is the agreement to complete the other company's calls in a like manner.
- "BLV/BLI (Busy Line Verify/Busy Line Interrupt) Traffic" or "BLV/BLI Call" means an operator call in which the end user inquires as to the busy status of, or requests an interruption of, a call on an Exchange Service.
- "Bona Fide Request" has the meaning ascribed to such term in Attachment 14.
- "CABS" means the Carrier Access Billing System which is contained in a document prepared under the direction of the Billing Committee of the OBF. The Carrier Access Billing System document is published by Bellcore in Volumes 1, 1A, 2, 3, 3A, 4 and 5 as Special Reports SR-OPT-001868, SR-OPT-001869, SR-OPT-001871, SR-OPT-001872, SR-OPT-001873, SR-OPT-001874, and SR-OPT-001875, respectively, and contains the recommended guidelines for the billing of access and other connectivity services.
- "CENTREX" means a Telecommunications Service that uses central office switching equipment for call routing to handle direct dialing of calls, and to provide many private branch exchange-like features and includes BellSouth's ESSX®, MultiServe®, Prestige® services.
- "CLASS (Custom Local Area Signaling Service) and Custom Features" means a grouping of optional enhancements to basic local exchange service that offers special call handling features to residential and single-line business customers (e.g., call waiting, call forwarding and automatic redial).
- "Claim" has the meaning ascribed to such term in Section 10.4 of the General Terms and Conditions.
- "Collocation" has the meaning set forth in Attachment 3, Section 2.1.
- "Commission" means State Commission as Defined in the Act.
- "Common Transport" has the meaning set forth in Attachment 2, Section 9.1.
- "Conduit" has the meaning set forth in Attachment 3, Section 3.

- "Confidential Information" means confidential or proprietary technical or business information given by the Discloser to the Recipient and further defined in Section 18.1 of the General Terms and Conditions.
- "Contract Year" means a twelve (12) month period during the term of the contract commencing on the Effective Date and each anniversary thereof.
- "Cooperative Testing" has the meaning set forth in Attachment 2, Section 16.1.1
- "CRIS/CLUB" means Customer Record Information System/Customer Local Usage Billing.
- "Customer Proprietary Network Information (CPNI)" is as defined in the Act.
- "Customer Usage Data" means the local Telecommunications Services usage data of an HTI Customer, measured in minutes, sub-minute increments, message units, or otherwise, that is recorded by BellSouth and forwarded to HTI.
- "Dark Fiber" has the meaning set forth in Attachment 2, Section 15.1.1.
- "Databases" has the meaning set forth in Attachment 2, Section 13.1.1
- "Dedicated Transport" has the meaning set forth in Attachment 2, Section 10.1.1.
- "Defaulting Party" is a Party in breach of a material term or condition of the Agreement.
- "Digital Cross-Connect System" has the meaning set forth in Attachment 2, Sections 10.5.1.1 and 10.5.1.2.
- "Directory Listings" has the meaning set forth in Section 20.1 of the General Terms and Conditions.
- "Directory Assistance Service" has the meaning set forth in Attachment 2, Section 8.3.
- "Discloser" means that Party to this Agreement which has disclosed Confidential Information to the other Party.
- "Dispute Resolution Process" is the process described in Section 16 of the General Terms and Conditions and Attachment 1 which has been agreed to by the Parties for resolution of disputes.

"Distribution Media" has the meaning set forth in Attachment 2.

"Effective Date" is the date indicated in the Preface on which the Agreement shall become effective.

"EMR" means the Exchange Message Record System used among LECs for exchanging telecommunications message information for billable, non-billable, sample, settlement and study data. EMR format is contained in BR-010-200-010 CRIS Exchange Message Record, published by Bellcore and which defines the industry standard for exchange message records.

"Environmental Hazard" means (1) a release, discharge, leak, spill or disposal (collectively referred to hereafter as "release") of HAZARDOUS MATERIALS has occurred on premises or property that is related to the performance of this Agreement and that such affected material or media is demonstrated through applicable or appropriate testing method to require remediation or removal as determined by all laws, ordinances, statutes, codes, rules, regulations, orders and decrees of the United States, the state, county, city or any other political subdivision in which the release has occurred, and any other political subdivision, agency or instrumentality exercising jurisdiction over the release, including any applicable federal and state case law and common law interpreting any of the foregoing or (2) any event involving, or exposure to, HAZARDOUS MATERIALS which poses risks to human health, safety or the environment (including, without limitation, indoor or outdoor environment(s) and is regulated under any applicable laws or regulations as described in (1).

"Enhanced White Pages" means optional features available for White Pages Directory listings (e.g., bold, all capitals, additional line of text, indented).

"Enhanced Yellow Pages" means optional features available for Yellow Pages Directory listings (e.g., red type, bold, all capitals, additional line of text, indented).

"E911 Service" is a method of routing 911 calls to a PSAP that uses customer location data in the ALI/DMS to determine the PSAP to which a call should be routed.

"Filing" has the meaning set forth in Section 9.2 of the General Terms and Conditions.

"Follow-on Agreement" has the meaning set forth in Section 2.2 of the General Terms and Conditions.

"Governmental Authority" means any federal, state, local, foreign or international court, government, department, Commission, board, bureau, agency, official, or other regulatory, administrative, legislative or judicial authority with jurisdiction.

"Hazardous Materials" means any hazardous or toxic substance, material or waste listed in the United States Department of Transportation HAZARDOUS MATERIALS Table at 49 CFR 172.101; any hazardous substance listed by the Environmental Protection Agency (EPA) under the Comprehensive Environmental, Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. §§ 9601 et. seq., as amended, and found at 40 CFR Part 302; any hazardous waste listed under the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. §§ 6901 et. seq., as amended, and found at ¥0 CFR Part 261; any toxic substance regulated by the Toxic Substances Control Act, 15 U.S.C. §§ 2601 et. seq., as amended; any insecticide, fungicide, or rodenticide regulated by the Federal Insecticide, Fungicide, and Rodenticide Act, 7 U.S.C. §§ 136 et. seq.; and the following specified substances or materials, that may or may not be regulated by the above: (1) asbestos or asbestos-containing materials; (2) petroleum or petroleum-based or derived products or by-products; (3) polychlorinated biphenyls (PCBs); and (4) radon.

"HTI" has the meaning set forth in the Preface.

"HTI Customer" means any business or residential customer for HTI services.

"Interconnection" - The duty to provide, for the facilities and equipment of any requesting telecommunications carrier, interconnection with the local exchange carrier's network -

- a) for the transmission and routing of telephone exchange service and exchange access;
- b) at any technically feasible point within the carrier's network;
- that is at least equal in quality to that provided by the local exchange carrier to itself or to any subsidiary, affiliate, or any other party to which the carrier provides interconnection; and
- d) on rates, terms, and conditions that are just, reasonable, and nondiscriminatory, in accordance with the terns and conditions of the agreement and the requirements of this section and section 252.

"Interim Number Portability (INP)" is as described in the Act and means the delivery of LNP capabilities, from a customer standpoint in terms of call completion, with as little impairment of functioning, quality, reliability, and

convenience as possible and from a carrier standpoint in terms of compensation, through the use of existing and available call routing, forwarding, and addressing capabilities.

"Line Information Data Base(s) (LIDB)" means one or all, as the context may require, of the Line Information Databases owned individually by ILECs and other entities which provide, among other things, calling card validation functionality for telephone line number cards issued by ILECs and other entities. A LIDB also contains validation data for collect and third number-billed calls, which include billed number screening.

"Local Exchange Carrier" is as defined in the Act.

"Local Number Portability (LNP)" means Interim Number Portability (INP) or Permanent Number Portability (PNP).

"Local Number Portability Database" supplies routing numbers for calls involving numbers that have been ported from one local service provider to another and is further defined in Attachment 2, Section 13.3.1.

"Local Service" has the meaning set forth in Section 1 of the General Terms and Conditions.

"Local Switching" has the meaning set forth in Attachment 2, Section 7.1.

"Local Traffic" - means any telephone call that originates and terminates in the same LATA and is billed by the originating Party as a local call (non-toll), including any call terminating in an exchange outside of BellSouth's service area with respect to which BellSouth has a local interconnection agreement with an independent LEC, with which HTI is not directly interconnected.

"Loop" or "Loop Combination" has the meaning set forth in Attachment 2, Section 2.1.1.

"Loop Concentrator/Multiplexer" has the meaning set forth in Attachment 2, Section 5.1.

"Loop Distribution" has the meaning set forth in Attachment 2, Section 4.

"Loop Feeder" has the meaning set forth in Attachment 2, Section 6.1.1.

"MECAB" means the Multiple Exchange Carrier Access Billing document prepared under the direction the Billing Committee of the OBF. The Multiple Exchange Carrier Access Billing document, published by Bellcore as Special Report SR-BDS-000983, contains the recommended guidelines for the billing of

access and other connectivity services provided by two or more LECs (including LECs and CLECs), or by one LEC or CLEC in two or more states within a single LATA.

"MECOD" means the Multiple Exchange Carriers Ordering and Design (MECOD) Guidelines for Access Services- Industry Support Interface, a document developed under the auspices of the Billing Committee of the OBF. The MECOD document, published by Bellcore as Special Report SR STS-002643, establishes recommended guidelines for processing orders for access and other connectivity services which is to be provided by two or more LECs (including LECs and CLECs), or by one LEC or CLEC in two or more states within a single LATA.

"Network Element" is as defined in the Act.

"Network Interface Device" has the meaning set forth in Attachment 2, Section 4.1.1.1.

"911 Service" means a universal telephone number which gives the public direct access to the PSAP. Basic 911 service collects 911 calls from one or more local exchange switches that serve a geographic area. The calls are then sent to the correct authority designated to receive such calls.

"OBF" means the Ordering and Billing Forum (OBF), which functions under the auspices of the Carrier Liaison Committee (CLC) of the Alliance for Telecommunications Industry Solutions (ATIS).

"Operator Systems" has the meaning set forth in Part I, Section 30.9.5.

"OUTPLOC" is as described in Section 28.6.22 of Part I of the Agreement.

"Parties" means HTI and BellSouth.

"Permanent Number Portability (PNP)" means the use of the Local Routing Number (LRN) database solution to provide fully transparent LNP for all customers and all providers without limitation.

"Pole Attachment" has the meaning set forth in Attachment 3.

"Premises" is as defined in the Act.

"Public Safety Answering Point (PSAP)" means the designated agency to which calls to E911/911 services are routed.

- "Real Time" means the actual time in which an event takes place, with the reporting on or the recording of the event practically simultaneous with its occurrence.
- "Recipient" means that Party to this Agreement to which Confidential Information has been disclosed by the other Party.
- "Recorded Usage Data" has the meaning set forth in Attachment 7, Section 3.1.
- "Release" means any release, spill, emission, leaking, pumping, injection, deposit, disposal, discharge, dispersal, leaching, or migration, including without limitation, the movement of Environmental Hazards through or in the air, soil, surface water or groundwater, or any action or omission that causes Environmental Hazards to spread or become more toxic or more expensive to investigate or remediate.
- "Retail Rates" means the lowest prices that BellSouth actually charges its customers.
- "Rights of Way (ROW)" has the meaning set forth in Attachment 3.
- "RLEC" The terms Regional Local Exchange Company ("RLEC"), Local Exchange Company ("LEC"), and Incumbent Local Exchange ("ILEC") are used interchangeably throughout this Agreement.
- "SECAB" means the Small Exchange Carrier Access Billing document prepared by the Billing Committee of the OBF. The Small Exchange Carrier Access Billing document, published by Bellcore as Special Report SR OPT 001856, contains the recommended guidelines for the billing of access and other connectivity services.
- "Served Premises" means collectively, the HTI designated locations to which HTI orders Network Elements, Ancillary Functions or Combinations.
- "Service Control Point" has the meaning set forth in Attachment 2, Section 13.1.2.
- "Services and Elements" means collectively Local Services, Network Elements, Combinations, Ancillary Functions, and Additional Features.
- "Service Order" means the placement of an order for Services or Elements.
- "Signaling Link Transport" has the meaning set forth in Attachment 2, Section 11.1.

"Signaling Transfer Points" has the meaning set forth in Attachment 2, Section 12.1

"SS7 Network Interconnection" has the meaning set forth in Attachment 2, 15.5.1

"Synchronization" has the meaning set forth in Attachment 2, Section 15.4.1.

"Tandem Switching" has the meaning set forth in Attachment 2, 14.1.

"Telephone Relay Service" provides to speech and hearing-impaired callers a service that enables callers to type a message into a telephone set equipped with a keypad and message screen and to have a line operator read the message to a recipient and to relay message recipients' response to the speech or hearing-impaired caller.

"Total Element Long Run Incremental Cost (TELRIC)" is the cost of the forward looking least cost technology of providing a service, relevant group of services, or basic network elements, given that the company already produces all of its services. Alternatively, TELRIC represents the costs avoided if the telecommunications provider had never offered the particular service, group of services, or network element in question.

"Voluntary Federal Customer Financial Assistance Programs" are Telecommunications Services provided to low-income subscribers, pursuant to requirements established by the appropriate state regulatory body.

"Waste" means all hazardous and non-hazardous substances and materials which are intended to be discarded, scrapped, or recycled, associated with activities HTI or BellSouth or their respective contractors or agents perform at Work Locations. It shall be presumed that all substances or materials associated with such activities, that are not in use or incorporated into structures (including without limitation damaged components or tools, leftovers, containers, garbage, scrap, residues or byproducts), except for substances and materials that HTI, BellSouth or their respective contractors or agents intend to use in their original form in connection with similar activities, are Waste. "Waste" shall not include substances, materials or components incorporated into structures (such as cable routes) even after such components or structure are no longer in current use.

"Work Locations" means any real estate that BellSouth owns, leases or licenses or in which it holds easements or other rights to use, or does use, in connection with this Agreement.

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PERFORMANCE MEASUREMENT

1. PERFORMANCE MEASUREMENT

- 1.1 BellSouth, in providing Services and Elements to HTI pursuant to this Agreement, shall provide HTI the same quality of service that BellSouth provides itself and its end-users. This Attachment 12 includes HTI's measurements for those requirements. The Parties have agreed to five (5) categories of Performance to be measured: (1) Provisioning; (2) Maintenance; (3) Billing (Data Usage and Data Carrier); (4) Databases, e.g., LIDB and (5) Account Maintenance. Each category includes measurements which focus on timeliness, accuracy and quality. BellSouth shall measure the following activities to meet the goals provided herein.
- 1.2 Except as otherwise provided in this Attachment 12, BellSouth shall provide data on a monthly basis for each state and for the nine states served by BellSouth. The data shall be reported to HTI in a mutually agreed upon format which will enable HTI to compare BellSouth's performance for itself with respect to a specific measure to BellSouth's performance for HTI for that same specific measure. BellSouth shall also provide the raw data used to calculate each measurement for HTI as reasonably requested by HTI. For provisioning and maintenance, separate measurements shall be provided as follows:
 - POTS/Non-Design
 Residence Dispatch Out/Non-Dispatch Out

 Business Dispatch Out/Non-Dispatch Out
 - UNE Dispatch Out/Non-Dispatch Out
 - Local Interconnection/Trunking
 - Specials Design Only

1.3 DELETED

1.4 BellSouth and HTI recognize that percentage target performance levels have not been provided for all measurements and that such targets for certain categories of performance will be required to improve performance, to maintain parity with that which BellSouth has obligated itself to provide under this Agreement, or to improve service as HTI and BellSouth may mutually agree. BellSouth and HTI agree to meet to discuss establishment of such targets quarterly, starting no later than

ninety (90) days after actual performance occurs. Such targets will reflect a negotiated level of performance. Notwithstanding the foregoing, HTI reserves its right to request targets that exceed parity. Such a request may require HTI to reimburse BellSouth for the reasonable and demonstrable cost BellSouth incurs to provide such performance, as the Parties may mutually agree.

2. PROVISIONING PERFORMANCE MEASUREMENTS

Provisioning performed by BellSouth will meet the following measurements:

2.1 Desired Due Date: Measures as a percent how often BellSouth is able to meet HTI's desired due date for provisioning Services, Elements, or Combinations. BellSouth has stated that it cannot provide this measurement at this time. The Parties agree to review BellSouth's ability to provide Desired Due Date within sixty days from execution of this Agreement. Until such time as BellSouth provides this measurement, BellSouth agrees to provide a range of intervals provided below that it represents are reflective of the time it takes to install Services. Elements. or Combinations. BellSouth shall measure and provide data on the performance intervals (for each of BellSouth and HTI Customers) and the Parties agree to meet to review interval data to assess whether the intervals should be improved, within sixty days from execution of this Agreement. In addition, BellSouth and HTI shall jointly develop within sixty days from execution of this Agreement, an audit plan that will provide data to demonstrate that the intervals provided by BellSouth to HTI are at parity with those BellSouth provided itself or its end-users

Service	Interval	
INSTALLATION		
Lines/trunks with no premises visit:		
Business		
1-3 lines	≤ 2 business days*	
4-15	≤ 4 business days*	
Over 15 lines	AS NEGOTIATED	
Residential	≤ 2 business days*	
Lines/trunks with premises visit:		

Under normal business conditions

Business	
1-2 lines	2 business days*
3-5 lines	4 business days*
6-10 lines	6 business days*
11-15	9 business days*
Over 15 lines	AS NEGOTIATED
Residential	4 days*
Business lines/trunks; plant or other facilities not available and must be provisioned	AS NEGOTIATED
ESSX®/Multi Serv (Centrex) ^(sm)	
New/To & From	AS NEGOTIATED
New features (not in common block)	AS NEGOTIATED
Add/changes (in common block)	
1-3 lines	2 business days
4-9 lines	3 business days
10-24 lines	5 business days
Over 24 lines	AS NEGOTIATED
Unbundled Network Elements	
Business or Residential	The Parties agree to establish appropriate intervals for provisioning unbundled Network Elements within sixty days from execution of this Agreement.
FEATURE CHANGES	

Under normal business conditions

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Orders received before 3:00pm	Completed on day of receipt
Orders received after 3:00pm	Completed before 5:00pm next business day
SERVICE DISCONNECTS	
With no premises visits	
Business or Residential	Within 24 hours after receipt of Service Order

2.2 Committed Due Date Met:

Measures as a percent the actual date service provisioned compared to the date service was scheduled to be provisioned.

Measurement:

N = Total Appointments Met D = Total Appointments Set

2.3 No Trouble Reported Within 30 Days of Order Completion: Measures reliability of service provided to HTI customers in first 30 days of service.

Measurement:

POTS:

N = All troubles on service installed ≤ 30 days in a calendar month

D = Installations in a calendar month

Note: N and D are not the same order base.

Specials:

N = Troubles on service installed ≤ 30 days

D = Installations in a calendar month

Note: N and D are in the same order base.

2.4 Firm Order Confirmation:

Measures the timeliness of receiving a validation that the service ordered will be provisioned.

Measurement:

N = Total Number of FOCs Sent for the segment of each 24 hour period

D = Total Number of FOCs Sent in a 24 hour period

BellSouth agrees to collect and measure data in 4 hour segments through January 1, 1998. At that time, HTI and BellSouth will review BellSouth's ability to provide an Electronic FOC in four hours or less.

2.5 Notice of Reject or Error Status Within 1 Hour of Receipt (Paper/Electronic):

Measures the timeliness of receiving notification that a service order is incorrect and needs to be corrected.

Measurement:

N = Number of Rejects or Error Status Sent in ≤ 1 hour

D = Total Number of Rejects or Error Status Sent

2.6 Service Orders Provisioned As Requested:

(BellSouth and HTI agree to review appropriate information and develop a proposal to provide this measurement within sixty days of this Agreement.

3. MAINTENANCE MEASUREMENTS

3.1 Time to Restore

Measures average time it takes to restore to service Local Services, Network Elements, or Combinations.

Measurement:

N = Total Duration Time

D = Total Troubles

For Specials and Local Interconnection/Trunking:

N = Responsible Duration Time

D = Total Troubles

To the extent that HTI requests that BellSouth measure the time to restore Local Services, Network Elements or Combinations, separated between time to restore where no dispatch is required, time to restore where dispatch is required and time to restore a service impairment. In addition, if HTI requestsBellSouth to provide these measurements delineated in certain hourly intervals. BellSouth is agreeable to meeting this request for hourly intervals as delineated by HTI, subject to an estimated one-time cost of \$20,000.00 and a monthly recurring cost of \$500.00. HTI agrees to give BellSouth thirty (30) days written notice of its

desire for BellSouth to provide this measurement and, subject to final agreement on cost (one-time and monthly), BellSouth will provide it as requested, within ninety (90) days unless otherwise agreed.

3.2 Repeat Troubles

Measures trouble reports from the same customer in a 30 day period.

N = Total Repeats < 30 days

D = Total Troubles

3.3 Trouble Resolution Notification

BellSouth shall inform HTI of the restoration of Local Service, Network Element, or Combination after an outage has occurred by means of a telephone call until such time as a mechanized means of notification becomes available.

3.4 HTI will transmit repair calls to the BellSouth repair bureau by telephone until it is able to make use of the Electronic Interfaces pursuant to Attachment 15. BellSouth shall measure the average length of time it takes for the BellSouth repair bureau attendant to answer the telephone.

3.5 Missed Appointments

Measures when BellSouth misses meeting end user appointments that require a premise visit.

Measurement:

N = Total Appointments met

D = Total Appointment set

3.6 Report Rate

Measures the frequency of troubles reported within BellSouth's network.

Measurement:

N = Number of Trouble Reports per month

D = Total number of Lines

4. BILLING (CUSTOMER USAGE DATA)

4.1 Timeliness

BellSouth will mechanically transmit, via CONNECT:Direct, all usage records to HTI's Message Processing Center once daily.

Measurement:

- N = Total Number of Messages Sent within six (6) calendar days from Initial Recording
- D = Total Number of Messages Sent

Target:

≥ 95% of all messages will be delivered within 6 calendar days from initial recording.

4.2 Completeness

BellSouth will provide all required Recorded Usage Data and ensure that it is processed and transmitted within thirty (30) days of the message create date.

Measurement:

N = Total number of Recorded Usage Data records delivered during the current month that are within thirty (30) days of the message create date.

D = Total number of Recorded Usage Data Records delivered during the current month

Target:

≥ 98% of all records delivered within 30 days of the message creation

4.3 Recorded Usage Data Accuracy

4.3.1 Format and Content

BellSouth will provide Recorded Usage Data in the format and with the content as defined in the current BellCore EMR document.

Measurement:

N = Total Number of Recorded Usage Data Transmitted Correctly

D = Total Number of Recorded Usage Data Transmitted

Target:

≥ 98% of all recorded records delivered will be

transmitted correctly

4.3.2 Transmission

BellSouth will ensure that the Recorded Usage Data is transmitted to HTI error free. The level of detail includes, but is not limited to: detail required to Rating the call, Duration of the call, and Correct Originating/Terminating information pertaining to the call. The error is reported to BellSouth as a Modification Request (MR). The type of MR that corresponds with each MR response time classification shall be mutually determined. Performance is to be measured and reported in accordance with the MR response times described below:

MR Response Times:

A = Immediate Attention - Resolution within 24 hours

B = Resolution 4 to 7 Days - Unquidables

C = Resolution 2 to 3 Weeks

D = Resolution 1 to 2 Months - Changes Which Need to be Made

R = Resend (Files) within 6 Hours

All times refer to mutual business work days/hours

4.4 Data Packs

Data Pack rejections and resends shall be as defined in Attachment 7, Appendix 2, Sections 4.4 and 4.5. BellSouth will transmit to HTI all packs error free in the format agreed.

Measurement:

N = Total Number of Data Packs Sent Error Free

D = Total Number of Data Packs Sent

Target:

96% of all Packs transmitted in a calendar month will be accepted.

5. BILLING (CONNECTIVITY BILLING AND RECORDING)

5.1 The Parties have agreed to negotiate a pre-bill certification (Future Optimum State - FOS) process as set forth in Section 12 of Attachment 6. This certification process shall include appropriate performance measurements and shall be completed within 120 days of execution of the Agreement.

DATA BASES

- 6.1 Line Information Data Base
- 6.1.1 BellSouth shall provide processing time at the Line Information Data Base ("LIDB") within 1 second for 99% of all messages under normal conditions as defined in the technical reference in Section 13.8.5 of Attachment 2.
- 6.1.2 BellSouth shall provide 99.9 % of all LIDB queries in a round trip within 2 seconds as defined in the technical reference in Section 13.8.5 of Attachment 2.
- 6.1.3 Once appropriate data can be derived from LIDB, BellSouth shall measure the following:
- 6.1.3.1 There shall be at least a 99.9.% reply rate to all query attempts.
- 6.1.3.2 Queries shall time out at LIDB no more than 0.1% of the time.

6.1.3.3 **DELETED**

- 6.1.3.4 Group troubles shall occur for no more than 1% of all LIDB queries. Group troubles include responses other than:
- 6.1.3.4.1 Missing Group The group is not defined in LIBD (when reply is returned "vacant" but there is no active record for the 6-digit NPA-NXX group.)
- 6.1.3.4.2 Vacant Code When a 6-digit NPA-NXX is defined as vacant in LIDB but no active line is associated with that NPA-NXX code.
- 6.1.3.5 Once HTI requests LIDB screening pursuant to Section 13.4.2.20 of Attachment 2, the Parties shall negotiate the appropriate performance standard for defects in LIDB Data Screening of responses.

7. ACCOUNT MAINTENANCE

7.1 When notified by a CLEC that an HTI Customer has switched to CLEC service, BellSouth shall provision the change, and notify HTI via

CONNECT: Direct that the customer has changed to another service provider ("OUTPLOC") within one (1) business day:

Measurement:

- N = Number of Local Service Changes From HTI to Another CLEC Provisioned with Notification to HTI in One Business Day
- D = Total Number of Local Service Changes from HTI to Another CLEC Provisioned with Notification to HTI
- 7.2 When notified by HTI that a customer has changed his/her PIC only from one interexchange carrier to another carrier, BellSouth shall provision the PIC only change and convey the confirmation of the PIC change via the work order completion feed within one (1) business day.

Measurement:

- N = Number of PIC Only Changes from One IEC to Another Initiated by HTI Provisioned with Notification via the Work Order Completion Feed in ≤ One Business Day
- D = Total Number of PIC Only Changes from One IEC to Another Initiated by HTI Provisioned with Notification via the Work Order Completion Feed
- 7.3 If notified by an interexchange carrier using an '01' PIC order record that an HTI Customer has changed his/her PIC only, BellSouth will reject the order and notify that interexchange carrier a CARE PIC record should be sent to the serving CLEC for processing within one (1) business day of BellSouth's receipt of the PIC order from the IXC.

Measurement:

- N = Number of PIC Change Requests for an HTI Local Customer Rejected by BellSouth to IXC ≤ One Business Day
- D = Total Number of PIC Changes for an HTI Local Customer Rejected by BellSouth to IXC

BONA FIDE REQUEST PROCESS

- Bona Fide Requests are to be used when HTI makes a request of BellSouth to provide a new or modified network element, interconnection option, or other service option pursuant to the Telecommunications Act of 1996; or to provide a new or custom capability or function to meet HTI's business needs, referred to as a Business Opportunity Request (BOR). The BFR process is intended to facilitate the two way exchange of information between the requesting Party and BellSouth, necessary for accurate processing of requests in a consistent and timely fashion.
- 1.1 A Bona Fide Request shall be submitted in writing by HTI and shall specifically identify the required service date, technical requirements, space requirements and/or such specifications that clearly define the request such that BellSouth has sufficient information to analyze and prepare a response. Such a request also shall include a HTI's designation of the request as being (i) pursuant to the Telecommunications Act of 1996 or (ii) pursuant to the needs of the business. The request shall be sent to HTI's Account Executive.

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ENTIRE SECTION DELETED