

- 3.2.2 GTE shall provide AT&T equal and non-discriminatory access to pole space, ducts, inner ducts, conduit, and ROW, including ancillary pathways as provided below, it owns or controls. Such access shall be provided to AT&T on terms and conditions as favorable as is provided by GTE to itself or to any other party. Further, GTE shall not preclude or delay allocation of these Structures to AT&T because of the potential needs of itself or of other parties, except as provided below. This general duty is subject to any agreements or easements that would prohibit GTE from providing such access on specific pole space, ducts, conduit, or ROW to AT&T. If GTE determines that access to specific pole space, ducts, conduit, or ROW is precluded by an agreement or easement, AT&T shall have the right to review the pertinent provisions of the agreement or easement.
- 3.2.3 GTE will not enter into any agreements with owners that restrict the ability of the owner to reach agreements with AT&T regarding access to ROW and ancillary pathways to the customer, such as entrance facilities, cable vaults, telephone closets, equipment rooms, risers, and other similar passageways. For those ancillary pathways to the customer, such as entrance facilities, cable vaults, telephone closets, equipment rooms, risers, and other similar passageways, that GTE controls access to and where spare capacity exists, GTE will provide access to those facilities to AT&T on a nondiscriminatory basis.
- 3.2.4 GTE shall provide to AT&T a Regional Single Point of Contact to resolve issues that arise in the implementation of this Agreement.
- 3.2.5 Excepting maintenance and emergency ducts as provided below, all useable but unused space on poles, conduits, ducts or ROW owned or controlled by GTE shall be available for the attachments of AT&T, GTE or other providers of Telecommunications Services or cable television systems; provided, however, GTE may exclude or condition access for reasons of safety, reliability and generally applicable engineering standards, provided that such exclusions and conditions are consistent with those that GTE applies to its own use of poles, ducts, conduits and ROW. Neither AT&T, GTE nor any other person may reserve space on GTE owned or controlled poles, conduits, ducts or ROW for its future needs, unless GTE permits AT&T, GTE or any other person to reserve space on GTE-owned or controlled poles, conduits, ducts or ROW for specific planned projects over the same time period. To the extent that GTE decides to permit such reservations it shall do so in a nondiscriminatory and competitively neutral manner and shall not favor itself or any of its affiliates and it shall notify AT&T in writing 30 days in advance of implementing such decision of the reservation process it

intends to follow. Such reservations may only be for specific projects for which a party, including GTE or any of its affiliates, can demonstrate a specific commitment by producing detailed engineering plans. GTE may reserve for emergency and maintenance purposes one duct in each conduit section of its facility routes. Such duct shall be equally accessible and available by any party with Facilities in such conduit section to use to maintain its Facilities or to restore them in an emergency.

3.3 Pre-Ordering Disclosure Requirements

3.3.1 AT&T may request information regarding the availability and conditions of poles, ducts, conduits, and ROW prior to the submission of Attachment Requests. GTE shall provide information regarding the availability and condition of GTE's poles, ducts, conduits, or ROW for Attachments within thirty (30) business days. If it is unable to inform AT&T about availability and conditions within the thirty-day interval, GTE shall advise AT&T within ten (10) days after receipt of AT&T's information request and will seek a mutually satisfactory time period for GTE's response. If GTE's response requires a field-based survey, AT&T shall have the option to be present at the field-based survey and GTE shall provide AT&T at least twenty-four (24) hours notice prior to the start of such field survey. During and after this period, GTE shall allow AT&T personnel to enter manholes and view pole structures to inspect such structures in order to confirm usability or assess the condition of the structure.

3.3.2 GTE shall make available to AT&T for inspection marked street maps and as-built drawings showing existing poles, conduit or other ROW at GTE's area engineering offices, upon reasonable advance notification. If the Parties can ascertain the availability of a specific point-to-point route at the time of viewing, GTE will make the maps and pole prints available for copying. In making these maps and prints available, GTE makes no express or implied warranty as to the accuracy of these maps and prints, other than to represent that they are the maps and prints GTE uses in its day-to-day operations. GTE reserves the right to deny subsequent requests to see previously viewed maps and prints if AT&T does not have a good faith intention to submit an Attachment Request relating to the areas described.

3.3.3 AT&T shall pay GTE a reasonable administrative fee to cover the direct cost of providing conduit maps and prints.

3.4 Attachment Requests

3.4.1 GTE agrees to permit AT&T to place AT&T's Facilities on or in GTE's poles, ducts, conduits, and ROW pursuant to Attachment Requests from AT&T approved in accordance with this Section 3.4 on the terms and conditions set forth herein. GTE may not restrict AT&T's ability to construct, maintain and monitor its facilities at these sites to any greater extent than GTE restricts its own ability to construct, maintain and monitor the same facilities.

3.4.2 For access to GTE owned or controlled poles, AT&T will follow this process provided that AT&T may follow any more expedited or less costly process that may be applied by GTE to itself, its affiliates, or other persons in the State of Missouri: (a) AT&T forwards a completed pole attachment inquiry/request form to GTE; (b) GTE reviews inquiry/request form and verifies the availability of space and communicates availability information back to AT&T within 30 business days; (c) AT&T decides whether it wants space; (d) If AT&T wants space, it will provide three (3) copies of maps, pole lease application and permit, permit compliance letter, rearrangement worksheet ("make ready" sheet); (e) AT&T will provide a check to cover the costs of GTE inspection and the first year's rent pro-rated to the next (annual) billing period. At this point, AT&T is guaranteed space and GTE opens a work order; (f) GTE uses make ready sheets to inspect the poles for proper build and identification of possible infractions. This process could take up to 45 days depending upon the size of the job; (g) GTE provides to AT&T a corrected copy of the make ready sheets and gives AT&T permission to start its build; (h) AT&T has 60 to 90 days to begin construction, but can start construction immediately upon receiving permission; (i) After construction is complete AT&T will notify GTE. GTE will complete a final inspection and identify infractions on a "gig" sheet provided back to AT&T. AT&T has 30 days to fix infractions; and (j) AT&T will notify GTE when work is complete and GTE will do one last inspection and close work order.

3.4.3 For access to GTE owned or controlled ducts or conduit, AT&T will follow this process provided that AT&T may follow any more expedited or less costly process that may be applied by GTE to itself, its affiliates, or other persons in the State of Missouri: (a) AT&T forwards a completed conduit/duct occupancy inquiry/request form to GTE; (b) GTE reviews inquiry/request form for availability, but not integrity of conduit/duct and communicates availability information back to AT&T within 30 business days; (c) AT&T decides whether it wants conduit/duct, and if so requests to know the integrity of the

conduit/duct. Prior to integrity verification, GTE will require either an engineering deposit or an escrow account for the inspector's or single source provider's (SSP) time; (d) Upon receipt of the deposit or escrow funds, AT&T can request GTE (SSP) to pull a slug through the duct to validate integrity. If and when requested, GTE will do so and will also attach a mule tape to the back end of the slug to get an accurate read (footage) from point A to point B of the conduit/duct. Alternatively, AT&T can have its approved vendor pull a slug with GTE's inspector watching; (e) Once the integrity of the conduit/duct is validated, AT&T will provide a check for the first year's rental associated with the amount of the actual footage to be leased pro-rated to the next (annual) billing period and an engineering design within 30 business days, which will provide procedures for access to the conduit/duct including, but not limited to a gas test procedure, a procedure for dealing with water in manholes which are used to access the conduit/duct, and how AT&T will guard the other Facilities in the manhole during its work. At this point conduit/duct is guaranteed to AT&T; (f) AT&T will access the conduit/duct through a manhole, a cable equipment vault or another mutually agreed means; (g) AT&T will be given 60 to 90 days to start construction, but can start construction immediately, at the point conduit/duct is guaranteed to AT&T; (h) After construction is complete, AT&T will notify GTE; and (i) GTE will complete a visual inspection of the job as well as any inspections during construction that GTE deems are necessary.

- 3.4.4 GTE's single point of contact will provide or will arrange to provide to AT&T any information known or available to GTE regarding environmental, health and safety matters for each GTE Structure in or on which AT&T seeks an Attachment no later than the time that GTE approves an AT&T Attachment Request. Information is considered available if it is in GTE's possession. GTE represents that the information provided by GTE will be the best information available to GTE at the time the information is provided. GTE does not represent that any information provided reflects the actual condition of the Structure at the time the information is provided, or at the time AT&T enters or seeks an Attachment at the Structure, nor that no change has occurred in such conditions between the time such information is provided and the time AT&T enters or seeks an Attachment at the Structure, and AT&T acknowledges that no such representations are made, however, GTE shall inform AT&T of any changes in the information provided to AT&T as soon as practicable after the change is known or available to GTE.

3.5 Authority to Place Attachments

- 3.5.1** Before AT&T places any Attachment pursuant to an approved Attachment Request, AT&T shall submit evidence of its authority to erect and maintain the Facilities to be placed on GTE's Structures within the public streets, highways and other thoroughfares or on private property, where such authority is required by law. AT&T shall be solely responsible for obtaining all licenses, authorizations, permits, and consent from federal, state and municipal authorities or private property owners that may be required to place Attachments on GTE's Structures.
- 3.5.2** GTE shall not unreasonably intervene against or attempt to delay the granting of any licenses, authorizations, permits or consents from federal, state and municipal authorities or private property owners that may be required for AT&T to place its Attachments on or in any poles, ducts, conduits, or rights of way, including those that GTE owns or controls.
- 3.5.3** If any license, authorization, permit or consent obtained by AT&T from an authority, which for the purposes of this Section 3.5.3 does not include GTE, is subsequently revoked or denied for any reason, permission to attach to GTE's Structures shall terminate immediately and AT&T shall remove its Attachments within the time required by such authorities, or absent such time, within ninety (90) days after AT&T receives notification of revocation or denial. AT&T may, at its option, litigate or appeal any such revocation or denial and if AT&T is diligently pursuing such litigation or appeal, AT&T may continue to maintain its Attachment. In doing so, AT&T agrees to indemnify GTE from and against any and all costs resulting from GTE's continuation of the Attachment which is the subject of such litigation or appeal. If AT&T does not appeal and AT&T fails to remove AT&T's Attachments within the above specified time period, GTE shall have the option to remove AT&T's Attachments and store them in a public warehouse at the expense of and for the account of AT&T without GTE being deemed guilty of trespass or conversion, and without GTE becoming liable for any loss or damage to AT&T's Attachments occasioned thereby. Alternatively, GTE may remove AT&T's Attachments and store them upon GTE's premises, in which event, GTE shall use the same standard of care to protect AT&T's Attachments that GTE uses for protecting GTE's own facilities and equipment. All reasonable costs incurred by GTE to remove AT&T's Attachments shall be reimbursed to GTE by AT&T upon demand.

3.6 Capacity

- 3.6.1 When there is insufficient space on a GTE pole or in a GTE conduit to accommodate an AT&T requested Attachment or occupancy, GTE shall take all reasonable steps to accommodate AT&T's requests for Attachments or occupancy where such access would require expansion of capacity. The costs of modifications required for expansion will be paid as provided in the FCC First Report and Order Paras. 1211-1216.
- 3.6.2 With GTE's consent, which consent shall not be unreasonably withheld, AT&T may break out of GTE conduit where there is no reasonable engineering alternative. Where required by GTE and upon forty-eight (48) hours prior notice from AT&T unless emergency circumstances dictate otherwise, GTE shall provide AT&T designated personnel with an escort service. Such escort service shall be available during normal business hours for such assignments. Prior to the start of work, AT&T and the GTE escort will discuss the manner in which the work will be performed and GTE's reasonable requirements for ensuring the integrity of the conduit, protecting the Facilities contained in the conduit, protecting personnel and public safety and for preventing service interruptions. GTE Outside Plant Personnel will determine whether escort services are required on a case by case basis. This determination will be based on AT&T's adherence to GTE's requirements for plant protection procedures and the industry-standard construction and access procedures used by AT&T. Nonetheless, GTE may require escort service in its sound discretion, provided, however, that AT&T shall not be required to reimburse GTE for more than the number of persons as are necessary and prudent for providing the appropriate escort service.
- 3.6.3 GTE shall permit manhole interconnections and breaking out of GTE manholes. Where required by GTE and upon forty-eight (48) hours prior notice from AT&T unless emergency circumstances dictate otherwise, GTE shall provide AT&T designated personnel with an escort service. Such escort service shall be available during normal business hours for such assignments. Prior to the start of work, AT&T and the GTE escort will discuss the manner in which the work will be performed and GTE's reasonable requirements for ensuring the integrity of the manhole structure, protecting the Facilities contained in the manhole structure, protecting personnel and public safety and for preventing service interruptions. GTE Outside Plant Personnel will determine whether escort services are required on a case by case basis. This determination will be based on AT&T's adherence to GTE's requirements for plant protection procedures and the industry-standard

construction and access procedures used by AT&T. Nonetheless, GTE may require escort service in its sound discretion, provided, however, that AT&T shall not be required to reimburse GTE for more than the number of persons as are necessary and prudent for providing the appropriate escort service. GTE reserves the right to deny AT&T requests to break out of manholes where the break out does not occur at precast knockout locations or where the location in which AT&T wants to break out is blocked by cable rack.

- 3.6.4 GTE shall take all reasonable measures to allow access and/or egress to all conduit systems. This shall include but not be limited to GTE's removal, upon AT&T's request and at AT&T's expense by paying GTE the actual costs incurred, of any retired cable from conduit systems to allow for the efficient use of conduit space within a reasonable period of time. If the Parties are unable to agree on what is reasonable (in terms of measures or time intervals), the matter may be submitted according to the Alternate Dispute Resolution Process, described in Attachment 1, by either Party. The costs of removal will be paid as provided in the FCC First Report and Order Paras. 1211-1216.
- 3.6.5 [Intentionally deleted.]
- 3.6.6 Where a spare inner duct does not exist, GTE shall allow and AT&T shall be required to install all inner duct in a spare GTE conduit. If another attaching entity, including GTE, uses the inner duct installed by AT&T, GTE shall inform AT&T and such entity shall share in the depreciated cost of the installation of the inner duct in proportion to the amount of the inner duct being used by that entity.
- 3.6.7 GTE shall not attach, or permit other entities to attach Facilities on existing AT&T Facilities without AT&T's prior written consent.
- 3.7 **Sharing of Rights of Way**
- 3.7.1 GTE shall offer the use of such ROW it has obtained from a third party to AT&T, to the extent that GTE's agreement or easement with the third party does not prohibit GTE from granting such rights to AT&T. AT&T shall have the right to review the pertinent parts of the agreement or easement between GTE and the third party when GTE asserts that the agreement or easement prohibits the granting of such rights or if, having agreed to grant such rights, GTE refuses to warrant that it has the authority to grant such rights. In cases where GTE does not have the authority to grant access, GTE shall provide the owner contact information if known to GTE and will not interfere in AT&T's obtaining

such access and shall not prevent or delay any third party assignment of rights-of-way to AT&T.

- 3.7.2 To the extent GTE owns or controls any path to a customer, GTE shall provide pursuant to and in accordance with Applicable Law, and consistent with GTE's ownership and control rights, access to such path, subject to the same restrictions and limitations applicable to GTE's use of such path.

3.8 Emergency Situations

- 3.8.1 Within fifteen (15) business days after the Effective Date, GTE shall establish a non-discriminatory priority method to access GTE manholes and conduits in emergency situations.

3.9 Attachment Fees

- 3.9.1 AT&T shall pay to GTE an Attachment Fee, consistent with Applicable Law for each GTE Structure upon which AT&T obtains authorization to place an Attachment.

- 3.9.2 GTE shall maintain an inventory of the GTE Structures occupied by AT&T based upon the cumulative Facilities specified in all Requests for Attachment approved in accordance with Section 3.4 of this Attachment 3. AT&T shall have the right to remove any Attachment at any time, and it shall be AT&T's sole responsibility to notify GTE of any and all removals by AT&T of its Attachments from GTE's Structures. Such notice shall be provided to GTE at least thirty (30) days prior to the removal of the Attachments and shall take the form of a Notice of Removal. AT&T shall remain liable for an Attachment Fee for each GTE facility included in all approved Attachment Requests until the Attachment is removed by AT&T. GTE may, at its option, conduct a physical inventory of AT&T's Attachments for purposes of determining the Attachment Fees to be paid by AT&T under this section.

3.10 Additions and Modifications to Existing Attachments

- 3.10.1 AT&T shall not modify, add to or replace Facilities on any pre-existing Attachment without first notifying GTE in writing of the intended modification, addition or replacement at least thirty (30) days prior to the date the activity is scheduled to begin. The required notification shall include: (1) the date the activity is scheduled to begin, (2) a description of the planned modification, addition or replacement, (3) a representation that the modification, addition or replacement will not require any space other than the space previously designated for

AT&T's Attachments, and (4) a representation that the modification, addition or replacement will not impair the structural integrity of the Structures and Facilities involved.

- 3.10.2 If the modification, addition or replacement specified by AT&T in its notice will require more space than that allocated to AT&T or will require the reinforcement or replacement of or an addition of support equipment to the Structures or Facilities involved in order to accommodate AT&T's modification, addition or replacement, AT&T will submit a Attachment Request in compliance with this Section in order to obtain authorization for the modification, addition or replacement of its Facilities.

3.11 Charges for Unauthorized Attachments

- 3.11.1 It is agreed that a charge equal to two (2) times the amount of the then current Attachment Fee shall be paid by AT&T to GTE for each Unauthorized Attachment to a GTE Structure for the period of time for which the Attachment is unauthorized provided that the lack of authorization as due to the act, or failure to act, of AT&T. Such payment shall be deemed liquidated damages and not a penalty. AT&T also shall pay GTE an Attachment Fee for each Unauthorized Attachment accruing from the date the Unauthorized Attachment was first placed on the GTE Structure. In the event that the date the Unauthorized Attachment was first placed on a GTE Structure cannot be determined, such date shall be deemed the date of the last physical inventory made in accordance with this Agreement or, if no physical inventory has been conducted, the date the first Attachment Request from AT&T was approved in accordance with this Agreement. If AT&T elects to leave the Attachment in place, AT&T also shall pay to GTE all costs incurred by GTE to rearrange any Unauthorized Attachment(s) of AT&T in order to accommodate the Attachment(s) of another party whose Attachment(s) would not have required a rearrangement but for the presence of AT&T's Unauthorized Attachment(s). If AT&T elects to leave the Attachment in place, AT&T shall also pay to GTE all costs incurred by GTE to reinforce, replace or modify a GTE Structure, which reinforcement, replacement or modification was required as a result of the Unauthorized Attachment of AT&T. The Attachment Fee referenced in this subsection shall be determined in the same manner as such fee would have been determined if the Attachment had been authorized by GTE.
- 3.11.2 For purposes of this section, an Unauthorized Attachment shall include, but not be limited to: (a) an Attachment on or in any GTE Structure,

which Structure is not identified in any Attachment Request approved in accordance with this Attachment 3; (b) an Attachment that occupies more space than that allocated to AT&T by GTE; (c) an addition or modification to a pre-existing Attachment that impairs the structural integrity of the involved GTE Structure or Facilities; (d) an Attachment installed by AT&T for the use of a party other than AT&T. An Unauthorized Attachment does not include an Attachment which AT&T demonstrates was made mistakenly, but in good faith pursuant to an approved Attachment Request for another location(s).

3.12 Surveys and Inspections of Attachments

3.12.1 The exact location of AT&T's Attachments on or in GTE's Structures may be determined, at GTE's discretion, through a survey to be made by GTE. If so requested, AT&T and/or any other entity owning or jointly owning the Structures with GTE may participate in the survey. If the survey reveals one or more unauthorized Attachments by AT&T, AT&T shall reimburse GTE all expenses incurred in conducting the survey.

3.12.2 Apart from surveys conducted in accordance with Section 3.12.1 above, GTE shall have the right to inspect any Attachment of AT&T on or in GTE's Structures as conditions may warrant. No joint survey or inspection by GTE shall operate to relieve AT&T of any responsibility, obligation or liability assumed under this Agreement.

3.13 Notice of Modification or Alteration of Structures by GTE

If GTE plans to modify or alter any GTE Structures upon which AT&T has Attachments, GTE shall provide AT&T notice of the proposed modification or rearrangement at least sixty (60) days prior to the time the proposed modification or alteration is scheduled to take place. AT&T shall be allowed to participate with GTE in such modification or rearrangement. AT&T shall make all rearrangements of its Facilities within such period of time as is jointly determined to be reasonable by the Parties based on the amount of rearrangements necessary and a desire to minimize chances for service interruption or facility-based service denial to an AT&T customer.

To the extent AT&T benefits from such modification or rearrangement or obtains access to such Structure as a result of the modification, AT&T shall pay GTE AT&T's proportionate share of the costs incurred. If AT&T has a preexisting Attachment to the modified Structure it shall be deemed to directly benefit from a modification if, after receiving notification of such modification, it adds to or modifies its Attachment. Notwithstanding the foregoing, if AT&T has a preexisting attachment to

a Structure it shall not be required to bear any of the costs of rearranging or replacing its Attachment if such rearrangement or replacement is necessitated solely as a result of an additional Attachment or the modification of an existing Attachment sought by a third party or GTE. If AT&T makes an Attachment to the Structure after the completion of the modification, it shall share proportionately in the cost of the modification with GTE and any contributing third parties, if such modification rendered possible the added Attachment.

3.14 Default and Remedies

3.14.1 The occurrence of any one of the following shall be deemed a Material Default by AT&T: (a) Failure by Licensee to perform or observe any term, condition, covenant, obligation or provision of this Attachment 3 and such default continues for a period of thirty (30) days after written notice thereof from GTE (provided that if such default is not curable within such thirty (30) period, the period will be extended if Licensee commences to cure such default within such thirty (30) day period and proceeds diligently thereafter to effect such cure); (b) AT&T's knowing use or maintenance of its Attachments in violation of any law or regulation, or in aid of any unlawful act or undertaking; (c) If any authorization which may be required of AT&T by any governmental or private authority for the placement, operation or maintenance of AT&T's Attachments is denied or revoked, and any appeals or other actions for review of such denial or revocation have been completed.

3.14.2 In the event of a Material Default, the provisions of Section 3.18.1 shall apply.

3.14.3 All rights and remedies of GTE set forth in this Agreement shall be cumulative and none shall exclude any other right or remedy, now or hereafter allowed by or available under any statute, ordinance, rule of court, or the common law, either at law or in equity, or both, except that GTE may not exercise any of the remedies set forth in Section 3.14.2 if such Material Default is the subject of Alternate Dispute Resolution procedures as set forth in Attachment 1 to the Agreement.

3.15 Termination of Section 3 by AT&T

3.15.1 Section 3 of Attachment 3 of this Agreement may be terminated by AT&T any time prior to the expiration of its term by providing written notice to GTE of its intent to terminate not less than ninety (90) days prior to the date such termination is to become effective. Within ninety (90) days after the date this Section 3 is terminated, AT&T shall cause all of its Attachments to be removed from all of GTE's poles. In the

event AT&T fails to remove its Attachments as required by this section, GTE shall have the option to remove all such Attachments and store them in a public warehouse or elsewhere at the expense of and for the account of AT&T without GTE being deemed guilty of trespass or conversion, and without GTE becoming liable for any loss or damages to AT&T occasioned thereby.

3.16 Indemnification

AT&T shall indemnify GTE as set forth in Section 10 of the General Terms and Conditions of this Agreement.

3.17 Abandonment

3.17.1 Nothing in this Agreement shall prevent or be construed to prevent GTE from abandoning, selling, assigning or otherwise disposing of any poles, conduit systems, or other GTE property used for AT&T's Attachments, provided, however, that GTE shall condition any such sale, assignment or other disposition subject to the rights granted to AT&T pursuant to this Agreement. GTE shall promptly notify AT&T of any proposed sale, assignment or other disposition of any Structures or other GTE property used for AT&T's Attachments.

3.18 Alternate Dispute Resolution

3.18.1 If GTE has declared AT&T in default of any provisions of this Section 3, or has otherwise notified AT&T that AT&T is not in compliance with the terms of this Section 3, either party may invoke the Alternate Dispute Resolution Process, described in Attachment 1, or the procedures described in the Act, the FCC's *First Interconnection Order*, § 1217-1231 and the FCC's Rules at 47 CFR §1.1401-1.1416. GTE will continue to process Attachment Requests pursuant to this Section 3.18.1 so long as ADR or one of the other procedures described in this section has been initiated and is still pending.

3.18.2 GTE will not be relieved of its obligations to process Attachment Requests by AT&T if AT&T is alleged to be in default of this Section 3 for nonpayment of fees and charges due GTE under this Section 3, so long as such default is (1) the subject of good faith negotiations; (2) the subject of Alternate Dispute Resolution procedures as set forth in Attachment 1 to the Agreement; or (3) being adjudicated before the FCC or any other court, regulatory body, agency, or tribunal having jurisdiction over such dispute.

ATTACHMENT 4

**PROVISIONING AND ORDERING
FOR UNBUNDLED ELEMENTS**

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Provisioning and Ordering

1. Network Deployment

- 1.1 GTE shall complete on a timely basis AT&T's orders for Network Elements and Combinations and for services that GTE is required to offer to AT&T pursuant to this Agreement in all its serving areas from and after the Effective Date of this Agreement. To the extent sections contained in this Attachment set forth technical references, technical standards, technical requirements, and/or performance standards, GTE's obligation to comply with such references, requirements, and/or standards shall be subject to Section 23.19 of the General Terms and Conditions of this Agreement.

[Combinations]

- 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 GTE may deploy) that GTE provides to AT&T under this Agreement must be at least equal in quality to that provided by GTE to itself.

2. General Provisioning Requirements

- 2.1 AT&T may order Network Elements, in accordance with this Agreement, individually and in any combination so long as the combination is technically feasible. Combinations are Network Elements that are specified by AT&T for a geographic area or for a specific customer.

[Combinations]

- 2.2 Combinations shall be identified and described by AT&T so that they can be ordered and provisioned together.

[Combinations]

- 2.3 Combinations may be ordered by AT&T from GTE on a single order without the need to have AT&T send an order for each Network Element. The Parties agree to negotiate in good faith on the adoption of any subsequent forms or formats approved by the OBF.

[Combinations]

- 2.4 GTE shall provide provisioning services to AT&T on the same days/hours that it provides such services to itself. These days currently are Monday through

Friday from 8:00 a.m. to 5:00 p.m., within each respective time zone. AT&T may request GTE to provide Saturday, Sunday, holiday, and off-hour provisioning services. If AT&T requests that GTE perform provisioning services at times or on days as stated in the preceding sentence, GTE shall quote, within one (1) day of the request, a cost-based rate for such services. If AT&T accepts GTE's quote, GTE shall perform such provisioning services and AT&T will pay the agreed-upon rates.

- 2.5 GTE shall provide a Single Point of Contact (SPOC) for all ordering and provisioning activities involved in the purchase and provisioning of GTE's Network Elements or Combinations. GTE shall also provide to AT&T a toll-free nationwide telephone number (operational from 8:00 a.m. to 5:00 p.m., Monday through Friday, within each respective time zone) which will be answered by capable staff trained to answer questions and resolve problems in connection with the provisioning of Network Elements or Combinations, and other orders made under this Agreement.

[Combinations]

- 2.6 GTE will recognize AT&T as the customer of record of all Network Elements and Combinations ordered by AT&T and will send all notices, invoices and pertinent information directly to AT&T.

[Combinations]

3. Specific Provisioning Process Requirements

- 3.1 When requested by AT&T, GTE will schedule installation appointments (GTE employee dispatch) with GTE's representative on the line with AT&T's representative or provide AT&T access to GTE's scheduling system. GTE will provide appropriate training for all its employees who may interface with AT&T's customers.
- 3.2 GTE shall provide intercept and transfer services to AT&T for AT&T Customers on the same basis as such service is available to similarly-situated GTE customers. GTE shall provide a recorded announcement to (i) notify a calling party that the end user customer has transferred to a new telephone number of AT&T and (ii) provide such calling party with details concerning the new telephone number to be dialed to reach the customer. GTE shall provide such announcement for the same length of time that GTE provides intercept or referral information for its customers that have changed telephone numbers.

- 3.3 GTE will provide AT&T with a Firm Order Confirmation (FOC) for each order, as specified in Attachment 12. The FOC will contain an enumeration of AT&T's ordered Network Elements or Combinations (consisting of circuit number,

telephone number and/or component ID), PON, version, and GTE's commitment date for order completion (Committed Due Date).

[Combinations]

- 3.4 Upon work completion, GTE will provide AT&T electronically (unless otherwise requested by AT&T) with an Order Completion for each order that states when that order was completed. GTE shall respond with specific order detail as enumerated on the FOC and shall state any additional charges (e.g., time and cost-charges) up to a previously agreed-upon limit associated with that order that may be applicable.
- 3.5 GTE will perform pre-testing in accordance with industry standards. Where such test results are recorded, they will be provided to AT&T electronically or in writing (as directed by AT&T) at installation/turn-up. Where provision of such test results is not included in the underlying network element charge, AT&T will pay for such test results at GTE's cost.
- 3.6 As soon as identified and unless otherwise agreed, GTE shall provide notification electronically of any rejections or errors contained in any of the Data Element fields contained on any AT&T order.
- 3.7 As soon as identified and unless otherwise agreed, GTE shall provide notification electronically of any instances when GTE's committed due dates are in jeopardy of not being met by GTE on any aspect or feature contained in any AT&T order. GTE shall concurrently indicate its new Committed Due Date.

- 3.8 At AT&T's request, GTE will cooperate with AT&T to test Network Elements or Combinations purchased by AT&T in order to identify any performance problems identified at turn-up, including trouble shooting to isolate any problems.

[Combinations]

- 3.9 AT&T will designate the AIN features which GTE is to provide for the AT&T customer on AT&T's provisioning order.
- 3.10 GTE shall not reassign an AT&T Customer's AIN Trigger from an AT&T AIN application to some other service provider's application.

4. General Ordering Requirements

- 4.1 Upon AT&T's request through a Suspend/Restore Order, GTE shall suspend or restore the functionality of any Network Element or Combination. GTE shall suspend or restore each Network Element or Combination in a manner that conforms with AT&T's requested priorities and any applicable regulatory policy or procedures at appropriate service order charges to the extent not otherwise

included in the underlying element cost.

[Combinations]

- 4.2 GTE shall offer to AT&T the functionality of blocking calls (e.g., 800, 900, 976 international calls) by line or trunk.
- 4.3 GTE shall offer separate interLATA and intraLATA capabilities (i.e., 2 PICs where available) on a line or trunk basis.

- 4.4 Unless otherwise directed by AT&T, when AT&T orders a Network Element or **technically feasible Combination**, all pre-assigned trunk or telephone numbers currently associated with that Network Element or **technically feasible Combination** shall be retained without loss of feature capability and without loss of the associated Ancillary Functions including, but not limited to, Directory Assistance and 911/E911 capability.

[Combinations]

- 4.5 When AT&T orders Network Elements or **technically feasible Combinations** that are currently interconnected and functional, such Network Elements and **technically feasible Combinations** will remain interconnected and functional without any disconnection or disruption of functionality.

[Combinations]

5. Ordering Interfaces

- 5.1 GTE shall provide to AT&T a Real Time Electronic Interface (EI) for transferring and receiving orders, FOCs, Order Completions, and other provisioning data and materials (e.g., access to Street Address Guide (SAG) and Telephone Number Assignment Data Base) as provided in Section 29.1 of this Agreement.
- 5.2 With the customer authorization required by law, the permanent gateway shall provide AT&T's representatives with Real Time access to GTE customer information systems which will allow the AT&T representatives to perform the following tasks, if such information systems support GTE's retail business:
 - 5.2.1 Obtain AT&T customer profile, including AT&T customer name, billing and residence address, billed telephone numbers, and identification of features and services subscribed to by AT&T's customer;
 - 5.2.2 Obtain information on all features and services available, in the end-office where the AT&T customer is provisioned;
 - 5.2.3 Enter the order for the desired features and services;

- 5.2.4 Provide an assigned telephone number (if the AT&T customer does not have one assigned). Reservation and aging of these numbers shall remain GTE's responsibility;
- 5.2.5 Establish the appropriate directory listing;
- 5.2.6 Determine if a service call is needed to install a line or service;
- 5.2.7 Provide service availability dates to the AT&T customer;
- 5.2.8 Provide information regarding dispatch and installation schedules, if applicable;
- 5.2.9 Suspend, terminate, or restore service to an AT&T customer.

6. **GTE Provision of Information**

- 6.1 GTE shall provide to AT&T upon request and AT&T shall pay the required charge as part of the underlying element:
 - 6.1.1 A list of all services and features Currently Available from each switch that GTE may provide Local Switching, by switch CLLI;
 - 6.1.2 A listing by street address detail of the service coverage area of each switch CLLI;

- 6.1.3 All engineering design and layout information for each Network Element and Combination;

[Combinations]

- 6.1.4 A listing of all Currently Available functionalities for each Network Element or Combination; and

[Combinations]

- 6.1.5 Advanced information on the details and requirements for planning and implementation of NPA splits. GTE shall provide such information to AT&T within thirty (30) days from the time the GTE becomes aware of such information.
- 6.2 Within thirty (30) days after the Effective Date of this Agreement, GTE shall provide AT&T with an initial electronic copy and a paper copy of the SAG or its equivalent. Prior to the time that updates are available electronically, updates will be provided to AT&T on a monthly basis. Thereafter, updates shall be provided to AT&T as changes are made to the SAG.

7. Order Format and Data Elements for Individual Network Elements

- 7.1 AT&T and GTE shall each use the appropriate Data Elements for the ordering and provisioning of Network Elements and Combinations.

[Combinations]

- 7.2 Each order for a Network Element or a Combination will contain the following order-level sections, as then currently defined by the Ordering and Billing Forum (OBF), including, as appropriate, Administration, Bill, and Contact Information. This information is contained on both the ASR and LSR forms. In addition, each Network Element or Combination to be used for a specific AT&T End User customer shall contain the End User Information section.

[Combinations]

- 7.3 AT&T and GTE will use the OBF formats defined below for the exchange of ordering and provisioning data for Network Elements or Combinations. AT&T shall use the ASR forms and processes for ordering Network Elements that AT&T will use to serve more than one End User customer and the LSR form and processes for ordering Network Elements that AT&T will use to serve a single End User customer. AT&T and GTE shall use the forms and formats that have been approved by the OBF and, if mutually agreed, those that have reached the "initial closure" status at the OBF. If AT&T needs to order or have provisioned Network Elements or Combinations for which OBF approved or "initial closure" forms and formats do not yet exist, AT&T and GTE shall, within 30 days of a request by either party to do so, jointly develop a proposal for such forms and formats. AT&T and GTE shall use the jointly proposed forms and formats for the exchange of ordering and provisioning data unless the OBF modifies such forms and formats upon "initial closure" or final approval. If the OBF modifies such forms and formats upon "initial closure" or final approval, AT&T and GTE shall, upon mutual agreement, use the forms and formats as modified by the OBF. If AT&T and GTE do not agree on the interim forms and formats described in this Section, either Party may submit any disputed issues to the Alternative Dispute Resolution process in accordance with this Agreement.

[Combinations]

- 7.4 When ordering a Network Element (individually or as part of a technically feasible Combination), the interconnection characteristics and functionality of that Network Element will not be specifically ordered by AT&T and will automatically be provided by GTE.

[Combinations]

8. Order Format and Data Network Elements for Combinations

- 8.1 AT&T may purchase Combinations (i) on a case-by-case basis for those Network Elements that are AT&T customer-specific (hereinafter referred to as Customer-Specific Network Elements or Combinations); or (ii) on a common-use basis for those Network Elements that are shared by multiple AT&T customers (hereinafter referred to as Common-Usage Network Elements or Combinations).
- 8.2 When ordering a Combination, AT&T will have the option of ordering all capabilities and functionalities of each of the individual Network Elements that comprise the Combination.
- 8.3 When ordering either Customer-Specific Combinations or Common-Usage Combinations, AT&T may specify the functionality of that Combination without the need to specify the configuration of the individual Network Elements needed to perform that functionality. AT&T will specify the Elements that make up each of the Combinations necessary to satisfy the request.
- 8.4 Prior to providing Local Service in a specific geographic area or when AT&T requires a change of network configuration, AT&T may place an order with GTE requiring GTE to implement the capability. AT&T may request the establishment of Common Usage Network Elements or Combinations by use of the negotiated ordering methods and forms. The initial order requesting Unbundled Switching, recording and associated trunking, which shall be in a mutually agreed format, will be known as a "Footprint Order".

[Combinations]

9. Performance Requirements

- 9.1 AT&T will specify on each order its Desired Due Date (DDD) for completion of that particular order. GTE will not complete the order prior to the DDD or later than the DDD unless authorized by AT&T. If the time period from the date of the order to the DDD is less than the intervals for provisioning Network Elements, Combinations and the Footprint Order as set forth in the following table, and is also less than the intervals for provisioning the same or like Network Elements, Combinations and Footprint Orders that GTE provides to itself or to any third party, the order will be considered an expedited order.

[Combinations]

| |
|---------------------------------------|
| INTERVALS FOR ORDER COMPLETION |
|---------------------------------------|

| <u>Network Element, Combination or Footprint Order</u> | <u>Number of Days¹</u> |
|--|-----------------------------------|
| Loop Distribution | |
| Loop Concentrator/Multiplexer | |
| Loop Feeder | |
| Local Switching and Tandem Switching | |
| Operator System | |
| Dedicated Transport and Common Transport DS0, DS-1, T 1.5 STS-1, DS3/T3 OC-3, + | |
| Signaling Transfer Points | |
| Signaling Link Transport | |
| SCPs/Databases | |
| | |
| Loop Combination | |
| Footprint Order | |

[Combinations]

- 9.2 Within two (2) Business Hours after a request from AT&T for an expedited order, GTE shall notify AT&T if GTE will complete, or not complete, the order within the expedited interval. A Business Hour is any hour occurring on Monday through Friday, exclusive of national holidays, between 8 a.m. and 8 p.m. within each respective time zone.
- 9.3 Once an order has been issued by AT&T and if AT&T subsequently requires a new DDD that is earlier than the original DDD, AT&T will issue an expedited modify order. GTE will notify AT&T within two (2) Business Hours if it will complete, or not complete, the order on the new DDD.

¹ For each of the indicated Network Elements, Combinations and Footprint Orders listed in the Table, the intervals (i.e., number of days) will be established by the Implementation Team within 90 days of the Effective Date of this Agreement.

- 9.4 AT&T and GTE will agree to escalation procedures and contacts. GTE shall notify AT&T of any modifications to these contacts within one (1) week of such modifications.

ATTACHMENT 5
MAINTENANCE FOR LOCAL SERVICES RESALE
AND UNBUNDLED ELEMENTS

1. GTE shall provide repair, maintenance, and testing for all Local Services and Unbundled Network Elements **and Combinations** on an individual basis in accordance with the terms and conditions of this Attachment. In addition, GTE shall provide surveillance for all Local Services and Unbundled Network Elements **and Combinations** to the same extent that GTE provides such surveillance for itself. To the extent sections contained in this Appendix set forth technical references, technical standards, technical requirements, and/or performance standards, GTE's obligation to comply with such references, requirements, and/or standards shall be subject to Section 23.19 of the General Terms and Conditions of this Agreement.

[Combinations]

2. GTE shall cooperate with AT&T to meet maintenance standards for all Local Services and Unbundled Network Elements **and Combinations** ordered under this Agreement, as specified in Section 9 of this Attachment. GTE shall otherwise meet Commission maintenance and repair standards, if any, with respect to Local Services, and Unbundled Network Elements **and Combinations**.

[Combinations]

3. GTE shall cooperate with AT&T to establish a Real Time Electronic Interface for gateway or automated access by AT&T to GTE's maintenance systems and databases as provided in Section 29.1 of this Agreement.
4. GTE service technicians and other repair personnel shall provide repair service to AT&T customers that is at least equal in quality to that provided to GTE customers. GTE's operating policies, procedures and practices shall apply in all such repair service situations without regard to whether the customer is a GTE customer or an AT&T customer.

5. For all Local Services and, Network Elements **and Combinations** provided to AT&T under this Agreement, GTE shall provide the same maintenance, including, without limitation, maintenance intervals and procedures, that GTE provides for its own network, provided however, that with respect to any

Network Element(s) AT&T combines, GTE shall be responsible only for maintenance of the individual Network Element(s) provided pursuant to this Agreement, and under no event or circumstance shall GTE be responsible for the end-to-end performance of any combination of Network Elements provided pursuant to this Agreement or otherwise. GTE shall provide AT&T notice within one business day of the scheduling of any maintenance activity which may impact AT&T's Customers. Scheduled maintenance shall include, without limitation, such activities as, switch software retrofits, power tests, major equipment replacements and cable rolls; provided, however, that such activity is not related to a network or technology change covered elsewhere in this Agreement. Plans for scheduled maintenance shall include, at a minimum, the following information: location and type of facilities, work to be performed, date and time work is scheduled to commence, and date and time work is scheduled to be completed.

[Combinations]

6. GTE shall advise AT&T of all non-scheduled maintenance and testing activity to be performed by GTE on any network element, including, without limitation, any hardware, equipment, software, or system, providing service functionality that may reasonably be expected to impact AT&T Customers. GTE shall provide the maximum amount of advance notice to AT&T of such non-scheduled maintenance and testing activity as is reasonably practical, under the circumstances; provided, GTE shall provide emergency maintenance as promptly as possible under the circumstances, to maintain or restore service and shall advise AT&T promptly of any such actions it takes.
7. Major network outages will be reported to AT&T via a telephone number designated by AT&T. GTE and AT&T shall work cooperatively on the establishment of emergency restoration procedures. GTE may invite other carriers to join in this effort. In establishing such procedures, consideration shall be given to: (i) provision for immediate notification to AT&T of the existence, location, and source of any emergency network outage potentially affecting 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) methods and procedures to provide access to information relating to the status of restoration efforts and problem resolution during the restoration process; (iv) an inventory and description of mobile restoration equipment, by location; (v) methods and procedures for the dispatch of mobile equipment to the restoration site; (vi) methods and procedures for reprovisioning of all Local Services and Network Elements or Combinations after initial restoration; (vii) priority, as between AT&T Customers and GTE Customers, with respect to restoration efforts, consistent with FCC Service Restoration guidelines, including, without limitation,

deployment of repair personnel, and access to spare parts and components; and (viii) a mutually agreeable process for escalation of maintenance problems, including a complete, up-to-date list of responsible contacts, each available twenty-four (24) hours per day, seven (7) days per week. Said plans shall be modified and up-dated as needed.

[Combinations]

For purposes of this subsection, a major network outage is defined as 5,000 or more blocked call attempts in a ten (10) minute period in a single exchange. GTE shall provide timely notification to AT&T of any outage.

8. With respect to misdirected calls from AT&T customers requesting repair, GTE shall refer such AT&T customers to the telephone number designated by AT&T. With respect to misdirected calls from GTE customers requesting repair, AT&T shall refer such GTE customers to the telephone number designated by GTE.
9. Repair and maintenance services provided by GTE to AT&T and AT&T Customers under this Agreement shall, in accordance with Section 11.2 of the General Terms and Conditions of this Agreement, be equal in quality to those GTE provides to itself.
- 9.1 [Intentionally deleted.]
- 9.2 AT&T and GTE will develop mutually agreed-upon manual processes for repair reporting in the event of unavailability or failure of the Electronic Interface.
- 9.3 GTE's repair bureau shall provide to AT&T the "estimated time to restore" for all DS1 or higher capacity services at performance standard levels determined by the Implementation Team. GTE shall provide all other classes of service restoral commitment(s) as specified in Appendix 2 of Attachment 12 to this Agreement.
- 9.4 [Intentionally deleted.]
- 9.4.1 [Intentionally deleted.]
- 9.4.2 [Intentionally deleted.]
- 9.4.3 [Intentionally deleted.]
- 9.5 GTE shall provide progress reports and status of repair efforts to AT&T upon request. GTE will notify AT&T of restoration of service prior to internally closing the trouble ticket. The objective for the time within which such notification is to

occur shall be within one (1) hour of restoration of Local Service or Network Element or Combination after a network outage has occurred. The Parties shall work together to achieve such objective. GTE shall clear all repair tickets in compliance with GTE policies and guidelines. GTE shall close all repair tickets, including "test OK" ("TOK") and "Came Clear" ("CC") repair tickets, with the AT&T work centers designated by AT&T on the repair ticket, unless a different notification procedure is mutually agreed to by the Parties. GTE shall make one attempt to notify AT&T of closed repair tickets using a mutually agreed to notification method. At AT&T's option, AT&T shall contact the Customer to verify that the repair has been effected. GTE shall provide AT&T with a list of any applicable charges, as specified in Attachment 14, at the time a repair ticket is closed.

[Combinations]

- 9.6 When, in AT&T's judgment, any repair ticket or tickets are not being handled or resolved by GTE personnel in a timely manner, AT&T may escalate the matter for review and resolution under such procedures as are now available or may be established between the Parties during the term of this Agreement.
- 9.7 Except with respect to charges for inside wire maintenance, maintenance charges for premises visits by GTE technicians shall be billed by AT&T to its Customer, and not by GTE. The GTE technician shall present the Customer with an AT&T-branded form. Additional authorization for time and material charges shall be provided by AT&T using the agreed-to notification process.
- 9.8 Dispatching of GTE technicians to AT&T Customer premises shall be accomplished by GTE pursuant to a repair request received from AT&T and non-recurring charges shall apply as provided in Attachment 14. Any additional trips required to an AT&T Customer's premise because the Customer was not ready/available will result in an additional non-recurring charge.
- 9.9 GTE shall furnish AT&T with a single point of contact ("SPOC") for all communications relating to trouble repair and maintenance for POTS services; for special services, GTE will provide AT&T with a single point of contact on a regional basis.

ATTACHMENT 6
LOCAL SERVICES RESALE, UNBUNDLED NETWORK ELEMENT AND
INTERCONNECTION BILLING AND RECORDING

1. **GENERAL**

This Attachment contains the provisions applicable to billing and payment of all charges AT&T incurs for purchasing wholesale Local Services for resale and Unbundled Network Elements and Combinations, and the billing and payment procedures to be followed when AT&T is interconnected to GTE Network Facilities. The specific provisions for Local Service Billing are set forth in Appendix A; the specific provisions for Unbundled Network Element billing are set forth in Appendix B; and the specific provisions for Interconnection Billing are set forth in Appendix C.

[Combinations]

2. **ADDITIONAL REQUIREMENTS**

The following provisions shall, when applicable, govern Local Service, Unbundled Network Element and Interconnection Bills.

2.1 **BILL ACCURACY CERTIFICATION AND VALIDATION**

2.1.1 The Parties agree that as further set forth in accordance with this Attachment 6 and in order to ensure the proper performance and integrity of the entire Billing process, GTE will be responsible and accountable for transmitting to AT&T accurate and current bills on a monthly basis. GTE agrees to implement control mechanisms and procedures to render a bill that accurately reflects the Elements, Combinations and Local Service ordered and used by AT&T. The Parties agree that under meet point billing both Parties are responsible and accountable for recording and transmitting to the other Party accurate and current billing data as specified in Attachment 6, Appendix C. In addition, the Parties agree to meet monthly or as deemed necessary by either Party to review and resolve potential billing discrepancies.

[Combinations]

- 2.1.2 AT&T and GTE shall use diligent and good faith effort to reach an agreement on the Bill Certification Methodology. The Access Billing Supplier Quality Certification Operating Agreement, dated December 7, 1992, as amended December 16, 1993, between GTE and AT&T shall be used as the model for a Local Service Resale and Unbundling Billing Certification Operating Agreement as appropriate. GTE and AT&T shall cooperate to develop mutually acceptable bill quality processes.
- 2.1.3 Until Bills and Data are certified pursuant to the Local Service Bill Certification Operating Agreement reached under Section 2.1.2 of this Attachment 6, Bill and Data accuracy will be validated through an interim process using a mutually agreed procedures.
- 2.1.4 Subject to GTE's reasonable security requirements and except as may be otherwise specifically provided in this Agreement and in the Local Service Resale and Unbundling Billing Certification Operating Agreement contemplated by Section 2.1.2 of this Attachment 6, AT&T may audit GTE's books, records and other documents pertaining to the services provided to AT&T under this Agreement and billed in accordance with this Attachment 6 once in each Contract Year for the purpose of evaluating the accuracy of GTE's billing, data and invoicing. AT&T may employ other persons or firms for this purpose subject to the confidentiality provisions contained herein. 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 GTE. GTE shall have the right to review such audit and the findings.
- 2.1.5 Upon resolution of the audit, GTE shall promptly correct any error that is revealed in an audit, including making refund of any overpayment by AT&T or recording a charge for underpayment by AT&T, in each instance together with applicable interest, in the form of a credit or a debit 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 Attachment 1. Applicable Interest shall be as defined in Section 2.4.1.
- 2.1.6 Each Party shall cooperate fully in any such audit, providing reasonable access to any and all of its appropriate employees and relevant books, records and other documents of the party reasonably necessary to assess the accuracy of AT&T's orders and GTE's bills, data and invoices. Each Party shall bear its own costs and expenses of any audits.

2.2 PAYMENT OF CHARGES

- 2.2.1** GTE and AT&T will establish monthly billing dates ("Bill Date") for each Billing Account Number ("BAN"), and, when appropriate, as further defined in the applicable CABS document, which Bill Date shall be the same day month to month. Subject to the terms of this Agreement, AT&T and GTE will pay each other within the applicable periods set forth by Commission requirements, the last day of any such required period being the payment due date ("Payment Due Date"). If no such period(s) exist, the Payment Due Date shall be thirty (30) calendar days from the Bill Date. If the Payment Due Date is a Sunday or is a Monday that has been designated a bank holiday by the Chase Manhattan Bank of New York (or such other bank as the Parties specify), payment will be made the next business day. If the Payment Due Date is a Saturday or is on a Tuesday, Wednesday, Thursday or Friday that has been designated a bank holiday by the Chase Manhattan Bank of New York (or such other bank as the Parties specify), payment will be made on the preceding business day.

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 Local Service Billing invoice, one Unbundled Network Element Billing invoice, or one Interconnection Billing invoice, as the case may be, associated with each BAN. Each invoice must contain an invoice number (which will vary from month to month). On each bill associated with a BAN, the appropriate invoice number and the charges contained on such invoice must be reflected. All Local Service Bills, Unbundled Network Element Bills, or Interconnection Bills, as the case may be, must be received by the other Party no later than ten (10) calendar days from the applicable Bill Date and at least twenty (20) calendar days prior to the applicable payment due date (as described in this Attachment), whichever is earlier. Any Local Service Bill, Unbundled Network Element Bill, or Interconnection Bill received on a Saturday, Sunday or a day designated as a holiday by the Chase Manhattan Bank of New York (or such other bank as AT&T shall specify) will be deemed received the next business day. If either Party fails to receive Local Service Billing data and information, Unbundled Network Element Billing data and information, or Interconnection Billing data and information, as the case may be, within the time period specified above, the Payment Due Date will be extended by the number of days

the applicable Local Service Bill, Unbundled Network Element Bill, or Interconnection Bill is late.

- 2.2.2 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, GTE and AT&T 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. Notwithstanding any permitted assignment of this Agreement, AT&T will provide GTE with only one address to which such payments shall be rendered and GTE will provide to AT&T with only one address to which such payments shall be rendered. In the event AT&T receives multiple Bills from GTE which are payable on the same date, AT&T may remit one payment for the sum of all such Bills payable to GTE's bank account specified in this subsection. AT&T will provide specific account level detail for payment application. Each Party shall provide the other Party with a contact person or center for the handling of Billing payment questions or problems.

2.3 BILLING DISPUTES

- 2.3.1 Each Party agrees to notify the other Party in writing upon the discovery of a billing dispute. Such notification must occur within sixty (60) days of the Bill Date on which such disputed charges appear. In the event of a billing dispute, the Parties will endeavor to resolve the dispute within sixty (60) calendar days of the date on which the applicable Party receives written notification of such dispute. Resolution of the dispute will be attempted at all appropriate levels of management within the Parties respective billing organizations before use of the dispute resolution process in Attachment 1 resulting in a recommendation or settlement of the dispute and closure of a specific billing period.
- 2.3.2 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 applicable 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 applicable 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, unless Regulatory rules provide otherwise.

2.4 LATE PAYMENT CHARGES

- 2.4.1** If either Party fails to pay any Charges 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 interest shall be payable as a late payment penalty shall be assessed. The late payment interest rate shall be one and one-half (1 1/2) percent per month, or if lower the highest rate permitted by law, calculated based upon any portion of a payment not received by the Payment Due Date, compounded daily for the number of days from the payment date to and including the date that payment is actually made. In no event, however, shall interest be assessed on any previously assessed late payment charges, unless Regulatory rules provide otherwise. Notwithstanding any requirements set forth in this provision or any other provision contained within this Agreement, Late Payment Charges shall be calculated in accordance with applicable requirements, regulations, and allowances of the Commission.

2.5 RECORDING OF CALL INFORMATION

- 2.5.1** The Parties agree to record call information in accordance with this subsection. To the extent technical capability and capacity exists within a Party's existing systems, each Party will record agreed upon call detail information (i.e. the types and categories of call detail information each Party currently records for itself) associated with calls originated or terminated to the other Party's local exchange customer. These records shall be provided at a Party's request and shall, subject to Section 23.19 of the General Terms and Conditions of this Agreement, be formatted pursuant to applicable Bellcore standards and the terms and conditions of this Attachment. These records shall be transmitted as agreed upon to the other Party in EMR format via Connect:Direct capabilities. GTE and AT&T agree that they will retain, at each Party's sole expense, copies of all AMA records transmitted to the other Party for at least seven (7) calendar days after transmission

to the other Party.

- 2.5.1.1 Until an industry standard solution for generating terminating AMA records is available, the Parties may elect an interim method such as Terminating/Originating (T/O) factors for billing terminating rate elements. The Parties will mutually agree on the specific interim method, including establishing the criteria, application, and duration of such interim method.
- 2.5.2 Each Party will provide the other Party with a carrier identification code ("CIC") on each EMR record transmitted to the other Party. If GTE does not have a CIC for any local exchange carrier, ALEC or IXC for whom GTE must supply to AT&T Connectivity Billing records for information pursuant to this Attachment, GTE agrees that it will assist the local exchanger carrier, ALEC or IC in obtaining a CIC expeditiously. Until the local exchange carrier, ALEC or IXC has received a CIC, GTE agrees that it will submit its CIC to AT&T on those records for billing and payment. GTE further agrees that it will then be responsible for obtaining reimbursement for the respective charges from the appropriate carrier. Likewise, if AT&T does not have a CIC for any local exchange carrier, ALEC or IXC for whom AT&T must supply to GTE Billing records or information pursuant to this Attachment, AT&T agrees that it will assist the local exchange carrier, ALEC or IXC in obtaining a CIC expeditiously. Until the local exchange carrier, ALEC or IXC has received a CIC, AT&T agrees that it will submit its CIC to LEC on those records for billing and payment. AT&T further agrees that it will then be responsible for obtaining reimbursement for the respective charges from the appropriate carrier.
- 2.5.3 The Parties agree that they will meet the performance measurements for the provision of EMR records in Attachment 12.
- 2.5.4 The Parties agree that they will provide each other a single point of contact regarding any data exchange problems.
- 2.6 **EXAMINATION OF RECORDS**
- 2.6.1 Without waiver of and in addition to the Audit rights in the General part of this Agreement, upon reasonable notice and at reasonable times and in accordance with the bill quality processes currently in place, or as subsequently established pursuant to the Local Service Resale and Unbundling Billing Certification Operating Agreement contemplated by Section 2.1.2 of this Attachment, AT&T or its authorized representatives may examine GTE's documents, systems, records and

procedures which relate to the billing and recording of the Charges to AT&T under this Attachment 6.

ATTACHMENT 6A

LOCAL SERVICES RESALE, BILLING AND RECORDING

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APPENDIX A
LOCAL SERVICE RESALE BILLING AND RECORDING

1. General

This Section describes the specific requirements for GTE to bill and record all charges AT&T incurs for purchasing wholesale Local Services for resale.

2. Billable Information And Charges

- 2.1 GTE will bill and record in accordance with this Agreement those charges AT&T incurs as a result of AT&T purchasing from GTE wholesale Local Services, as set forth in this Agreement (hereinafter "Local Service Charges"). Each Local Service, purchased by AT&T shall be assigned a separate and unique billing code in the form agreed to by the Parties and such code shall be provided to AT&T on each Local Service Bill in which charges for such Elements, **Combinations**, or Local Services appear. Each such billing code shall enable AT&T to identify the Local Services ordered or utilized by AT&T in which Local Service Charges apply pursuant to this Agreement. Each Local Service Bill shall set forth the quantity and description of each such Local Service provided and billed to AT&T. All Local Service Charges billed to AT&T must indicate the state from which such charges were incurred.

[Combinations]

- 2.2 GTE shall provide AT&T a monthly Local Service Bill that includes all Local Service Charges incurred by and credits and/or adjustments due to AT&T for those Local Services ordered, established, utilized, discontinued or performed pursuant to this Agreement. Each Local Service Bill provided by GTE to AT&T shall include: (1) all non-usage sensitive charges incurred for the period beginning with the current bill date and extending to, but not 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 day after the last bill date and extending up to, and including, the current bill date, (4) any known unbilled usage sensitive charges for prior periods, and (5) any known unbilled adjustments. The Local Service Bill shall also include all charges for Primary Interchange Carrier (PIC) changes and/ or such other charges as are applicable as separate item(s) defined by billing telephone number and any associated working telephone number.
- 2.3 The Bill Date must be present on each bill transmitted by GTE to AT&T. Local Service Bills shall not be rendered for any Local Service Charges which are incurred under this Agreement on or before one (1) year preceding the Bill Date except for charges resulting from resolution of an audit conducted

pursuant to Section 2.1.4 of Attachment 6. In addition, on each bill where "Jurisdiction" is identified, Local Traffic charges shall be identified as "Local" and local toll charges identified as intrastate/intraLATA.

- 2.4 GTE shall bill AT&T for any wholesale Local Service, supplied by GTE to AT&T pursuant to this Agreement at the rates set forth in this Agreement. GTE will bill AT&T based on the actual Local Service Charges incurred, provided, however, for those usage based Local Service Charges where actual charge information is not determinable by GTE 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 Local Service Charges shall be actual conversation in tenths of seconds. The total conversation seconds per chargeable traffic types will be totalled for the entire monthly bill cycle and then rounded to the next whole minute.
- 2.5 Costs and expenses incurred in complying with this Attachment shall be calculated and allocated in accordance with Sections 42 and 43 of Part V of this Agreement.
- 2.6 Each Party shall provide the other Party at no additional charge a contact person or center for the handling of any Local Service Billing questions or problems that may arise during the implementation and performance of the terms and conditions of this Attachment.

3. **Issuance of Local Service Bills - General**

- 3.1 GTE and AT&T shall issue Local Service Bills as follows:
- 3.1.1 Until such time as the Parties agree otherwise, GTE and AT&T shall issue the information contained in official Local Service Bills via Electronic Data Exchange ("EDI").
- 3.1.2 GTE and AT&T will jointly work together such that on or as soon after July 1, 1998 as possible, GTE and AT&T shall issue the information contained in all official Local Service Bills in accordance with the format set forth in EDI 811, GTE Release #3.0, or such later EDI versions that are requested by AT&T and available from GTE at the time of such request and as mutually agreed by the Parties. If GTE changes internal releases, a differences list must be provided to AT&T 90 days prior to the release.
- 3.2 [Intentionally Deleted]
- 3.3 Each Party will provide the other Party written notice of which Local Service Bills are to be deemed the official bills. If either Party requests an additional copy(ies) of a bill, such Party shall pay the other Party a reasonable fee per additional bill copy or transmission as the case may be, unless such copy or

transmission was requested due to errors, omissions, or corrections or the failure of the transmission to comply with the specifications set forth in this Agreement.

- 3.4 To avoid transmission failures or the receipt of Local Service Billing information that cannot be processed, the Parties shall provide each other with their respective process specifications and edit requirements. AT&T shall comply with GTE's processing specifications when AT&T transmits Local Service Billing data to GTE. GTE shall comply with AT&T's processing specifications when GTE transmits Local Service Billing data to AT&T. AT&T and GTE shall provide each other reasonable notice if a Local Service 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.

4. **Electronic Transmissions of Local Services Bills**

- 4.1 GTE and AT&T agree that on or as soon after July 1, 1998 as possible and following implementation of information delivery via EDI format pursuant to Section 3.1.2 of this Appendix A, each Party will transmit Billing information and data in the appropriate EDI format electronically via Connect: Direct (formerly known as Network Data Mover) to the other Party at the location specified by the Party. The Parties agree that a T1.5 or 56kb circuit to Gateway for Connect: Direct is required. AT&T data centers will be responsible for originating the calls for data transmission via switched 56kb or T1.5 lines. If GTE has an established Connect: Direct link with AT&T, 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. GTE must provide AT&T/Alpharetta its Connect: Direct Node ID and corresponding VTAM APPL ID before the first transmission of data via Connect:Direct. AT&T's Connect: Direct Node ID is "GTEDS.TTG" and VTAM APPL ID is "TSANDM" and must be included in LEC's Connect:Direct software. AT&T will supply to GTE 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.
- 4.2 The following dataset format shall be used as applicable for those Charges transmitted via Connect:Direct in EDI format:

Production Dataset

| | |
|-----------------------|---|
| AF02.P.GTEXX.DATA.gdg | Production Dataset Name |
| AF02= | Job Naming Convention |
| P= | Production Node |
| GTEXX= | Company Name followed by XX |
| DATA= | Data received |
| gdg= | each transmission will be received as a generation (gdg) file |

Test Dataset

| | |
|------------------------|-----------------------------|
| AF02.P.GTEXX.TEST.DATA | Test Dataset Name |
| AF02 = | Job Naming Convention |
| P= | Production Node |
| GTEXX= | Company Name followed by XX |
| TEST = | Test Node |
| DATA = | Data Received |

4.2.1 GTE agrees that if it transmits data to AT&T in a mechanized format utilizing EDI, GTE will also comply with the following specifications which are not contained in EDI guidelines but which are necessary for AT&T 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.
- State code representing the BAN location will be provided as a two byte character format.

5. Testing Requirements

- 5.1 The Parties will jointly develop a test procedure prior to sending mechanized bills or data to ensure to the satisfaction of each Party that bills may be processed as required in this Agreement.
- 5.2 GTE shall provide to AT&T's Company Manager, located at 500 North Point Parkway, FLOC B1104B, Alpharetta, Georgia 30302, GTE's originating or state level company code so that it may be added to AT&T's internal tables at least thirty (30) calendar days prior to testing or prior to a change in GTE's originating or state level company code.
- 5.3 During the testing period, GTE shall transmit to AT&T any Billing data and information via electronic transmission as specified in Section 4. Test data

shall be sent via tape, or other media mutually agreed to by both Parties, to AT&T at the following location:

| | |
|-------------|---|
| Test Tapes: | AT&T 500 North Point Parkway FLOC B1104B Alpharetta, Georgia 30302 Attn: Access Bill Testing Coordinator |
|-------------|---|

ATTACHMENT 6B**UNBUNDLED NETWORK ELEMENTS BILLING AND RECORDING****TABLE OF CONTENTS**

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APPENDIX B
UNBUNDLED NETWORK ELEMENT BILLING AND RECORDING

1. **General**

This Section contains the provisions applicable to the billing and recording of all charges AT&T incurs for purchasing Unbundled Network Elements and/or Combinations of Unbundled Network Elements.

[Combinations]

2. **Billable Information And Charges**

2.1 GTE will bill and record in accordance with this Agreement those **Combinations** charges AT&T incurs as a result of AT&T purchasing from GTE Unbundled Network Elements and/or **Combinations of Unbundled Network Elements** as set forth in this Agreement (hereinafter "Unbundled Network Element Charges"). Each such Element, or **Combination thereof** purchased by AT&T shall be assigned a separate and unique billing code in the form agreed to by the Parties and such code shall be provided to AT&T on each Unbundled Network Element Bill in which charges for such Elements, or **Combinations** appear. Each such billing code shall enable AT&T to identify the Element(s), or **Combinations**, Objects and Options as described in Attachment 4 to this Agreement ordered or utilized by AT&T in which Unbundled Network Element Charges apply pursuant to this Agreement. Each Unbundled Network Element Bill shall set forth the quantity and description of each such Element, or **Combination** provided and billed to AT&T. All Unbundled Network Element Charges billed to AT&T must indicate the state from which such charges were incurred.

[Combinations]

2.2 GTE shall provide AT&T a monthly Unbundled Network Element Bill that includes all Unbundled Network Element Charges incurred by and credits and/or adjustments due to AT&T for those Elements, or **Combination thereof**, ordered, established, utilized, discontinued or performed pursuant to this Agreement. Each Unbundled Network Element Bill provided by GTE to AT&T 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 day after the last bill date and extending up to, and including, the current bill date unless otherwise agreed between the Parties,

(4) any known unbilled usage sensitive charges for prior periods, and (5) any known unbilled adjustments.

- 2.3 The Bill Date must be present on each bill transmitted by GTE to AT&T. Unbundled Network Element Bills shall not be rendered for any Unbundled Network Element Charges which are incurred under this Agreement on or before one (1) year preceding the Bill Date, except for charges resulting from an audit conducted pursuant to Section 2.1.4 of Attachment 6. In addition, on each bill where "Jurisdiction" is identified, Local Traffic charges shall be identified as "Local" and local toll charges shall be identified as intrastate/intraLATA.

- 2.4 GTE shall bill AT&T for each Element, or Combination thereof, supplied by GTE to AT&T pursuant to this Agreement at the rates set forth in this Agreement. GTE will bill AT&T based on the actual Unbundled Network Element Charges incurred, provided, however, for those usage based Unbundled Network Element Charges where actual charge information is not determinable by GTE 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 Unbundled Network Element Charges shall be in tenths of conversation seconds. The total conversation seconds per chargeable traffic types will be totalled for the entire monthly bill cycle and then rounded to the next whole minute.

[Combinations]

- 2.5 Costs and expenses incurred in complying with this Attachment shall be calculated and allocated in accordance with Sections 42 and 43 of Part V of this Agreement.
- 2.6 Each Party shall provide the other Party at no additional charge a contact person or center for the handling of any Unbundled Network Element Billing questions or problems that may arise during the implementation and performance of the terms and conditions of this Attachment.

3. **Collocation**

When AT&T collocates with GTE in GTE's facility as described in this Agreement, capital expenditures (e.g., costs associated with building the "cage"), shall be billed separately and shall not be included in the Unbundled Network Element Bill provided to AT&T pursuant to this Attachment. All such capital expenses shall be given a unique BAN (as defined in Section 2.2.1 of Attachment 6 to this Agreement) and invoice number. All invoices for capital expenses shall be sent to the location specified by AT&T for payment. All

other non-capital recurring collocation expenses shall be billed to AT&T in accordance with this Agreement. The applicable CABS Billing Output Specifications ("BOS") documents provide the guidelines on how to bill the Unbundled Network Element Charges associated with collocation. The bill label for those collocation charges shall be entitled "Expanded Interconnection Service." For those nonmechanized Unbundled Network Element bills, the bill label for non-capital recurring collocation expenses shall be entitled "Co-location."

4. **Issuance of Unbundled Network Element Bills - General**

4.1 GTE and AT&T shall issue Unbundled Network Element Bills as follows:

4.1.1 Until the such time as the Parties agree otherwise GTE and AT&T shall issue the information contained in official Unbundled Network Element Bills via EDI.

4.1.2 GTE and AT&T will jointly work together such that on or as soon after July 1, 1999 as possible, GTE and AT&T shall issue the information contained in all official Unbundled Network Element Bills in accordance with the format set forth in CABS BOS Version 28.0, or such later BOS versions that are requested by AT&T and available from GTE at the time of such request and as mutually agreed by the Parties.

4.2 [Intentionally Deleted]

4.3 Each Party will provide the other Party written notice of which Unbundled Network Element Bills are to be deemed the official bills. If either Party requests an additional copy(ies) of a bill, such Party shall pay the other Party a reasonable fee per additional bill copy or transmission, as the case may be, unless such copy or transmission was requested due to errors, omissions, or corrections or the failure of the transmission to comply with the specifications set forth in this Agreement.

4.4 To avoid transmission failures or the receipt of Unbundled Network Element Billing information that cannot be processed, the Parties shall provide each other with their respective process specifications and edit requirements. AT&T shall comply with GTE's processing specifications when AT&T transmits Unbundled Network Element Billing data to GTE. GTE shall comply with AT&T's processing specifications when GTE transmits Unbundled Network Element Billing data to AT&T. AT&T and GTE shall provide each other reasonable notice if a Unbundled Network Element 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.

5. Electronic Transmissions of Unbundled Network Element Bills

[Intentionally Deleted]

- 5.1 GTE and AT&T agree that on or as soon after July 1, 1999 as possible and following implementation of information delivery via CABS format pursuant to Section 3.1.2 of this Appendix A, 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 the Party. The Parties agree that a T1.5 or 56kb circuit to Gateway for Connect: Direct is required. AT&T data centers will be responsible for originating the calls for data transmission via switched 56kb or T1.5 lines. If GTE has an established Connect:Direct link with AT&T, 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. GTE must provide AT&T/Alpharetta its Connect:Direct Node ID and corresponding VTAM APPL ID before the first transmission of data via Connect:Direct. AT&T's Connect: Direct Node ID is "NDMATTA4" and VTAM APPL ID is "NDMATTA4" and must be included in LEC's Connect:Direct software. AT&T will supply to GTE 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.
- 5.2 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 |
| AXXX= | Numeric Company Code |
| YYY= | LEC Remote |
| AZZZ= | 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) |

- 5.2.1 GTE agrees that when it transmits data to AT&T in a mechanized format utilizing CABS, GTE will also comply with the following specifications which are not contained in CABS guidelines but which are necessary for AT&T 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.

6. Testing Requirements

GTE and AT&T shall adhere to the same testing requirements and specifications for transmitting Unbundled Network Element Bills as applicable to Local Service Bills, as set forth in Appendix A to this Attachment 6, Section 5 and as set forth in Section 5 of this Appendix B.

7. Local Number Portability

- 7.1 In accordance with the terms and conditions set forth in this Attachment 6, GTE shall record and provide to AT&T agreed upon detail information associated with a call to an AT&T local exchange customer whose telephone number has been ported from GTE under INP (Interim Number Portability) as further described in the Local Number Portability Attachment to this Agreement.
- 7.2 When an IXC terminates an InterLATA or IntraLATA toll call to an AT&T local exchange customer whose telephone number has been ported from GTE via INP, the Parties agree that AT&T shall receive compensation for IXC access charges associated with these calls as specified in section 43.3.5 of the Agreement, and Attachment 8 and Attachment 14 to the Agreement. When a call for which access charges are not applicable is terminated to an AT&T local exchange customer whose telephone number has been ported from

GTE, the Parties agree that the mutual compensation arrangements described in this Agreement shall apply.

ATTACHMENT 6C

INTERCONNECTION BILLING AND RECORDING

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APPENDIX C

INTERCONNECTION BILLING AND RECORDING

1. General

This Section describes the Meet Point Billing and Reciprocal Compensation requirements applicable when AT&T is Interconnected to GTE network facilities.

2. Meet Point Billing

- 2.1 AT&T and GTE 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. 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.
- 2.2 AT&T and GTE will implement the "Multiple Bill/Multiple Tariff" option in order to bill any interexchange carrier ("IXC").
- 2.3 GTE and AT&T shall provide to each other the billing name, billing address, and carrier identification code ("CIC") of the IXCs that may utilize any portion of each other's network in an AT&T/ILEC MPB arrangement in order to comply with the MPB Notification process as outlined in the MECAB document. Such information shall be provided to each other in the format and via the medium that the parties agree. If either party does not initially record sufficient bill detail for any IXC for whom either party must supply to the other MPB billing information, each party agrees that it will assist each other in resolving these billing matters by providing sufficient billing detail to the other party to allow that party to obtain reimbursement from the IXC. GTE and AT&T shall require any new IXC to notify both GTE and AT&T using the existing ASR process in accordance with MECOD ordering guidelines.
- 2.4 GTE and AT&T agree that in a 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 or such other charges(s) as replace(s), supplements(s) or supersede(s) the RIC and/or the CCL. The Parties further agree that in those MPB situation 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, as appropriate, and such other applicable charges that are FCC/PSC mandated,

tariff specified, or are mutually agreed upon by both GTE and AT&T. The Parties also agree that 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 that are FCC/PSC mandated, tariff specified, or mutually agreed upon by both GTE and AT&T. The Parties also agree that the Party who provides the end office switching is entitled to bill end office switching fees, local transport charges, RIC and CCL charges or such other charge(s) as replace(s), supplement(s) or supersede(s) the RIC and/or the CCL, as appropriate, and such other applicable charges.

- 2.5 GTE and AT&T will create and transmit MPB information in accordance with the standards and in the format set forth in this Attachment. GTE and AT&T will coordinate and exchange the billing account reference ("BAR") and billing account cross reference ("BACR") numbers for the MPB arrangements described in this Attachment. Each Party will notify the other if the level of billing or other BAR/BACR elements change, resulting in a new BAR/BACR number.
- 2.6 If MPB data is not processed and delivered by either GTE or AT&T 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.
- 2.7 If MPB data to be provided in the 1101 call detail records is not submitted within fifteen (15) days of the call date, or if MPB data to be provided in 1150 summary billing records is not submitted within fifteen (15) days of billing the IXC, or if any of the above data is not in the proper format as set forth in this Attachment, 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 calculated by applying the Late Payment Charge provisions contained in Section 2.4 of Attachment 6 to this Agreement to the appropriate delayed MPB charges.
- 2.8 Errors in MPB data exchanged by the Parties may be discovered by AT&T, GTE or the billable IXC. Both AT&T and GTE agree to provide the other Party with notification of any discovered errors within five (5) business days of the discovery. The other Party shall correct the error for processing current data within fifteen (15) business days of notification and correct and resubmit any prior period data within twenty (20) business days of notification. In the event that the erroneous data cannot be corrected and resubmitted within the time period specified above, the erroneous data shall be considered lost. If MPB data is lost due to intractable errors or otherwise, the Parties shall follow the procedures set forth in the Customer Billing Data Attachment of this Agreement and compensate the other for the lost MPB billing data.
- 2.9 [Intentionally left blank]

- 2.10 Neither AT&T nor GTE will charge the other for services rendered, or for information required for Collocation as set forth in 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.

3. **Reciprocal Compensation**

- 3.1 The Parties shall bill each other reciprocal compensation in accordance with the standards set forth in this Agreement for traffic terminated to the other Party's customer, where both such customers bear NPA-NXX designations associated with the same LATA or other authorized area (e.g., extended area service zones in adjacent LATAs), including those traffic types that have been traditionally referred to as "local calling", as "extended area service (EAS)", and as "intraLATA toll". Where GTE is the recording company, such traffic shall be recorded and transmitted to AT&T in accordance with this Attachment. Further, the 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 traffic shall be charged at rates specified in Part V and Attachment 14.
- 3.2 In lieu of the reciprocal compensation arrangement described above and where permitted by state law or Commission regulation or order, the Parties may elect in writing to adopt a bill and keep compensation arrangement or such other mutually agreed upon compensation arrangement.
- 3.3 GTE shall bill AT&T for any Interconnection Service, supplied by GTE to AT&T, pursuant to this Agreement at the rates set forth in this Agreement or as specified in the appropriate Interstate or Intrastate Access Tariff. GTE will bill AT&T based on the actual Interconnection Service Charges incurred, provided, however, for those usage based Interconnection Charges where actual charge information is not determinable by GTE 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.
- 3.4 AT&T shall bill GTE for any Interconnection Service, supplied by AT&T to GTE, pursuant to this Agreement at the rates set forth in this Agreement or as specified in the appropriate Interstate or Intrastate Access Tariff. AT&T will bill GTE based on the actual Interconnection Service Charges incurred, provided, however, for those usage based Interconnection Charges where actual charge information is not determinable by AT&T 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.

4. Issuance of Meet Point Billing Data and Mutual Billing Data

- 4.1** GTE and AT&T shall exchange the information and data required to implement Section 2 of this Appendix (i.e. Meet Point Billing information) and Section 3 of this Appendix (i.e. Reciprocal Compensation) in such forms and format as comply with industry standards or as mutually agreed between the Parties. Where feasible, and specifically for EMR format records, this information shall be exchanged via Connect: Direct as provided in Section 2.5 of this Attachment.

5. Testing Requirements

The Parties shall adhere to the same testing requirements and specifications for transmitting Meet Point Billing data and Reciprocal Compensation EMR data as applicable to the recording of Call Information as set forth in Section 2.5 of this Attachment. Other forms and formats of data to be exchanged shall adhere to the testing requirements as mutually agreed to by the Parties, or in compliance with appropriate industry standards once they have been developed and implemented by the Parties.

ATTACHMENT 7

PROVISION OF CUSTOMER USAGE DATA

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PROVISION OF CUSTOMER USAGE DATA

1. Introduction

- 1.1 This Attachment sets forth the terms and conditions for GTE's provision of recorded usage data (as defined in this Attachment) to AT&T. Recorded Usage Data shall be provided by GTE to AT&T when AT&T purchases Network Elements, **Combinations**, or Local Services from GTE. To the extent sections contained in this Attachment set forth technical references and/or performance standards, GTE's obligation to comply with such references and/or standards shall be subject to Section 23.19 of the General Terms and Conditions of this Agreement.

[Combinations]

2. General Requirements for Recorded Usage Data

- 2.1 GTE shall provide AT&T with Recorded Usage Data in accordance with this Attachment.
- 2.2 GTE's provision of Recorded Usage Data to AT&T shall be in accordance with AT&T's Direct Measures of Quality (DMOQs) set forth in Attachment 12.
- 2.3 GTE shall retain Recorded Usage Data in accordance with applicable law and regulation.

3. Usage Data Specifications

- 3.1 To the extent that GTE records such information for itself, GTE will record usage originating from AT&T Customers using the GTE provided Element or Local Services, which include intraLATA toll and local usage. Recorded Usage Data includes, but is not limited to, the following categories of information:
- Call Attempts
 - Completed Calls
 - Use Of CLASS/LASS/Custom Features
 - Calls To Information Providers Reached Via GTE Facilities And Contracted By GTE
 - Calls To Directory Assistance Where GTE Provides Such Service To An AT&T Customer
 - Calls Completed Via GTE Provided Operator Services Where GTE Provides Such Service To AT&T's Local Service Customer

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- For GTE Provided CENTRANET Service, Station Level Detail for calls outside the CENTRANET group
- Records Shall Include Complete Call Detail And Complete Timing Information
- Recording Of Completed Calls Which GTE Does Not Record For Its Own Service Offerings (e.g., Flat Rate Free Calling Area Service)

In the event GTE does not record any one or more of the above information categories, for itself, AT&T may request that GTE record such information. If AT&T requests that GTE record such information and GTE agrees to do so, the Parties shall negotiate the terms and conditions upon which GTE shall deliver such information to AT&T. Nothing in this Agreement shall obligate GTE to record and deliver such information to AT&T.

3.2 GTE shall provide to AT&T Recorded Usage Data for AT&T Customers only in unrated format, except for rated incollects and except as provided in Section 3.3 following. GTE will not submit other carrier local usage data as part of the AT&T Recorded Usage Data.

3.3 Calls to information providers referenced in Section 3.1 preceding shall be provided to AT&T in rated format for billing to the customer.

3.3.1 The parties also agree to establish settlement procedures to permit AT&T to recourse to GTE amounts AT&T Customers refuse to pay for these rated information provider charges forwarded by GTE to AT&T for billing.

3.4 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 GTE will provide Recorded Usage Data in the EMR format and by category, group and record type, as specified in the AT&T Customer Usage Data Transfer Requirements, March 1996 ("Data Requirements"), which is attached hereto and incorporated herein as Appendix II.

4.2 GTE 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.

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5. Recorded Usage Data Reporting Requirements

- 5.1 GTE shall segregate and organize the Recorded Usage Data in accordance with AT&T's instructions.
- 5.2 GTE shall provide segregated Recorded Usage Data to multiple AT&T biller locations as designated by AT&T.
- 5.3 GTE shall transmit Data Requirements formatted Recorded Usage Data to AT&T via CONNECT:Direct as designated by AT&T. In the event that usage transfer cannot be accommodated by CONNECT:Direct because of extended (one business day or more) facility outages, or if facilities do not exist, the LSP will contract for a courier service to transport the data tapes. Data transported to AT&T on tape or cartridge via a courier will have the physical characteristics indicated in SUBAPPENDIX A. AT&T's intent is for variable block format (2476 bytes) with a LRLECL of 2472. The charge for said service shall be as set forth in Attachment 14.
- 5.3.1 GTE will provide AT&T with contacts for sending/receiving usage files.
- AT&T will provide GTE with contacts responsible for receiving usage transmitted by GTE and usages tapes from a courier service in the event of a facility outage.
- 5.4 AT&T will test and certify the CONNECT:Direct interface to ensure the accurate receipt of Recorded Usage Data. GTE shall make any changes necessary to pass the AT&T CONNECT:Direct certification process.
- 5.5 GTE shall provide Recorded Usage Data to AT&T within the time frames specified in Attachment 12.
- 5.6 GTE will establish a single point of contact to respond to AT&T 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 AT&T.
- 5.8 When requested by AT&T for security purposes, GTE shall provide AT&T with Recorded Usage Data promptly. If not available in EMR format, the Recorded Usage Data may be provided in AMA format.

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5.9 USAGE SUMMARY

Messages will be transmitted, via a direct feed, to AT&T in standard EMR format. The following is a list of EMR records that AT&T can expect to receive from the LSP:

| | |
|--------------------|--|
| 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, 82, 83, 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 |
| Correction Records | 71-01-XX |

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

In addition, the LSP should provide a 42-50-01 Miscellaneous Charge record to support the Special Features Star Services (see Appendix II, Subappendix E for specific details) if these features are part of the LSP's resale product.

For detailed information regarding EMR, refer to the current version of the BellCore Practice BR010-200-010 document.

- 5.10 AT&T and GTE will track pack number to control input based upon invoice sequencing criteria. GTE will be notified of sequence failures identified by AT&T and resend procedures are to be invoked.
- 5.11 AT&T, upon receipt of cancel/connection records, will perform their current matching functionality to identify the original message to be connected/cancelled. Processing will be dependent upon individual negotiations.

6. Recording Failures

- 6.1 Loss of Recorded Usage Data - AT&T Recorded Usage Data determined to have been lost, damaged or destroyed as a result of an error or omission by GTE in its performance of the recording function shall, upon AT&T's request, be recovered by GTE at no charge to AT&T. In the event the data cannot be

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recovered by GTE, GTE shall estimate the messages and associated revenue, with assistance from AT&T, based upon the method described below. This method will be applied on a consistent basis, subject to modifications agreed to by GTE and AT&T. This estimate will be used to adjust amounts AT&T owes GTE for services GTE provides in conjunction with the provision of Recorded Usage Data.

- 6.1.1 Partial Loss - GTE shall review its daily controls to determine if data has been lost. When there has been a partial loss, actual message and minute volumes shall be reported, if possible. Where actual data are not available, a full day shall be estimated for the recording entity, as outlined in Section 6.1.3 following. The amount of the partial loss is then determined by subtracting the data actually recorded for such day from the estimated total for such day.
- 6.1.2 Complete Loss - Estimated message and minute volumes for each loss consisting of an entire AMA tape or entire data volume due to its loss prior to or during processing, lost after receipt, degaussed before processing, receipt of a blank or unreadable tape, or lost for other causes, shall be reported.
- 6.1.3 Estimated Volumes - From message and minute volume reports for the entity experiencing the loss, GTE shall secure message/minute counts for the four (4) corresponding days of the weeks preceding that in which the loss occurred and compute an average of these volumes. GTE shall apply the appropriate average revenue per message ("ARPM") provided by AT&T to the estimated message volume to arrive at the estimated lost revenue. Within 45 business days of the Effective Date of this Agreement, the Parties will mutually agree on a minimum threshold for application of this Section 6.1.3. Section 6.1.3 will be modified as set forth below:
 - 6.1.3.1 If the day of loss is not a holiday but one (1) (or more) of the preceding corresponding days is a holiday, use additional preceding weeks in order to procure volumes for two (2) non-holidays in the previous two (2) weeks that correspond to the day of the week that is the day of the loss.
 - 6.1.3.2 If the loss occurs on a weekday that is a holiday (except Christmas), GTE shall use volumes from the two (2) preceding Sundays.
 - 6.1.3.3 If the loss occurs on Mother's Day or Christmas, GTE shall use volumes from that day in the preceding year (if available).
- 6.2 AT&T may also request data be provided that has previously been successfully provided by GTE to AT&T. GTE shall provide such data to the extent available subject to AT&T's agreement to pay relevant charges on a case-by-case basis.

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7. **Charges**

GTE shall bill and AT&T shall pay the charges set forth in Part V and Attachment 14 for Recorded Usage Data. Billing and payment shall be in accordance with the applicable terms and conditions set forth in this Agreement.

8. **Local Account Maintenance**

- 8.1 When AT&T purchases Local Service from GTE, and, as appropriate, when AT&T purchases certain Unbundled Network Elements, GTE shall provide AT&T with Local Account Maintenance as described in Appendix III of this Attachment. These procedures are in addition to Service Order procedures set forth in Part I and Attachment 4 to this Agreement.

9. **Clearinghouse Procedures**

- 9.1 The Parties acknowledge that calls will be placed using the service of one Party that will be billable to customers of the other Party. In order to ensure that these calls are properly accounted for and billed to the appropriate customer, the Parties agree to work together and, when required, with other carriers, to establish clearinghouse procedures to accomplish these objectives. It is the intention of the Parties that these negotiations will be completed within six (6) months of the Effective Date of this Agreement. These procedures will establish the following:
- 9.1.1 AT&T shall have access to the Bellcore CMDS process for transmitting, receiving, and settling calling card, in-collect, and out-collect inter-region messages.
- 9.1.2 AT&T shall have access to the Bellcore company regional process for receiving and settling calling card, in-collect, and out-collect intra-region messages.
- 9.1.3 In the event a clearinghouse procedure is not in place upon the Effective Date of this Agreement, GTE will implement an interim arrangement with AT&T.

**APPENDIX I
TO
ATTACHMENT 7**

**CUSTOMER USAGE DATA
TRANSFER REQUIREMENTS**

SECTION I: SCOPE

1. General

This Appendix addresses the transmission by GTE of AT&T Customer usage to AT&T.

1.1 Usage Summary

Messages will be transmitted, via a direct feed, to AT&T in standard EMR format. The following is a list of EMR records that AT&T can expect to receive from GTE:

| | |
|--------------------|--|
| 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, 82, 83 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 |
| Correction Records | 71-01-XX |

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

In addition, GTE shall provide a Miscellaneous Charge 10 01 18 Specialized Service/Service Provider Charge record to support the Special Features Star Services (see Subappendix E for specific details) if these features are part of GTE's offering.

For detailed information regarding EMR, refer to the current version of the BellCore Practice BR010-200-010 Appendix.

2. Appendix Content

This Appendix describes baseline requirements for the transfer of GTE recorded, unrated usage to AT&T. 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 GTE. Modifications and/or exceptions to this Appendix must be negotiated and mutually agreed upon by GTE and AT&T.

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SECTION II: RECORDED USAGE TO BE TRANSMITTED TO AT&T

1. General

This section addresses the types of usage to be transmitted by GTE to AT&T.

9.1 Usage To Be Transferred To AT&T

9.1.1 AT&T Usage To Be Transferred

The following messages recorded by GTE are to be transmitted to AT&T. GTE recorded usage includes all usage by AT&T 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.

At the discretion of AT&T, any of the above mentioned messages that cannot be rated and/or billed by AT&T may be returned to GTE via a direct returns feed. Returned messages will be sent to GTE in EMR format. Standard EMR return codes will be utilized.

File transfer specifications are included within Section 3.

9.2 AT&T Usage

The Recorded Usage Data in a local resale environment includes all intraLATA toll and local usage. GTE will provide AT&T with unrated EMR records associated with all intraLATA toll and local usage which they record on AT&T's behalf. Any Category, Group and/or Record types approved in the future for GTE will be included if they fall within the definition of local service resale. AT&T shall be given notification of implementation of a new type within the negotiated timeframes.

NOTE: GTE messages will be packed using the packing criteria outlined in Section 3.4.8. It is important to note that all GTE messages will be packed together (intermingled) based on the appropriate AT&T Send To/Bill To RAO combination. Specific categories, groups, and record types will not be packed separately.

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SECTION III: GTE TO AT&T USAGE FEED

1. General

This section contains the information required for GTE to transmit the usage defined in Section II to AT&T. This section specifically addresses the dataset requirements and processing.

9.1 Detailed EMR Record Edits

AT&T will perform detailed record edits on the unrated and rated messages upon receipt from GTE. Messages that fail these edits may be returned to GTE.

9.2 Duplicate Record Checks

AT&T will perform record checks on the unrated and rated messages to validate that duplicate messages are not sent by GTE to AT&T.

9.3 GTE to AT&T Usage Feed

9.3.1 Usage Data Transport Requirements

GTE will provide the transport facility between GTE location and the AT&T location. It is AT&T's intent that usage data be transmitted via CONNECT:Direct whenever possible. In the event usage transfer cannot be accommodated by CONNECT:Direct because of extended (one (1) business day or longer) facility outages, or if facilities do not exist, GTE will contract for a courier service to transport the data via tape.

GTE will provide AT&T with contacts, Remote Identifiers (IDs), and expected usage data volumes for each sending location.

AT&T will provide contacts responsible for:

Receiving usage transmitted by GTE.

Receiving usage tapes from a courier service in the event of a facility outage.

9.3.2 Physical Characteristics

Data transported to AT&T on tape or cartridge via a courier will have the physical characteristics indicated in Subappendix A. AT&T's intent is for variable block format (2,476 bytes) with a LRECL of 2472.

9.3.3 Data Delivery Schedules

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

9.3.4 Resending Data

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

9.3.5 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 AT&T within one (1) business day of processing. Rejected packs will be corrected by GTE and retransmitted to AT&T by GTE.

9.3.6 Held Packs And Messages

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

9.3.7 Data Content Requirements

EMR is the format to be used for usage data provided to AT&T.

9.3.8 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. GTE will provide AT&T 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 AT&T. GTE will populate the FROM RAO field with the unique numeric value identifying the location that is sending the data to AT&T. GTE will populate the Send To/Bill To RAO fields with the appropriate AT&T RAO values. Also, Pack Header and Trailer will have the OCN appropriately populated.

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The FROM RAO, OCN, and Remote Identifiers will be used by AT&T to control invoice sequencing and each will have its own invoice controls. The FROM RAO will also be used to determine where the message returns file, containing any misdirected and unguidable usage, will be sent.

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. Compaction requirements can be found in Subappendix B hereto.

AT&T has no special sort requirements for the packs sent by GTE.

9.3.9 Dataset Naming Convention

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

NODE 1BBQ3PXNN*

NODE 2.IBMUP

NODE 3 (To be determined during negotiations)

NODE 4.USAGE

NODE 5.GNNNNV00* (Generational Dataset to be incremented by sender).

*The italicized "N" represents numeric fields determined during negotiations.

9.3.10 Control Reports

AT&T accepts input data provided by GTE 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 GTE to AT&T, data transfer control reports will be required. These reports shall be provided by AT&T to GTE on a daily or otherwise negotiated basis and reflect the results of the processing for each pack transmitted by GTE.

9.3.11 Message Validation Reports

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

9.3.11.1 Message Validation Pack Reject Report (A7287)

This report provides information on packs rejected by AT&T. 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.

9.3.11.2 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. RLEC Total Messages
2. RLEC 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 GTE.

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

9.3.11.3 Message Validation EMR Detail Error Report (A7289)

An EMR detailed error report is generated for each pack/ invoice that is received and processed by AT&T. 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

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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.

9.3.11.4 Control Reports - Distribution

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

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SECTION IV: AT&T PROCESSING REQUIREMENTS

1. General

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

9.1 AT&T Rating Process

9.1.1 Message Rating

AT&T will rate any individual messages (as defined in Section II), that have not already been rated by GTE (information provider messages will be rated by GTE), prior to transmitting the usage to a billing environment within AT&T.

9.1.2 Application Of Taxes/Fees/Surcharges

AT&T 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 GTE.

9.1.3 Duplicate Messages

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

9.1.4 Record Edits

9.1.4.1 AT&T Record Edits

AT&T will perform detailed record edits on the rated and unrated messages prior to transmitting them to the billing environment. Rated and unrated records that do not pass AT&T edits will be returned to GTE.

9.1.4.2 GTE Record Edits

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

Rated and unrated records that do not pass AT&T edits will be returned to

GTE. GTE will attempt to perform error correction on all records requiring such action as agreed upon through the detailed negotiations process.

9.1.5 AT&T To GTE Message Returns

At the discretion of AT&T, customer usage data sent to AT&T by GTE that cannot be guided to an AT&T billed account or that cannot be processed will be returned to GTE with the appropriate industry standard return codes.

9.1.6 Cancel/Correction Records

AT&T, 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.)

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SECTION V: TEST PLANS AND ACTIVITIES

1. General

This section defines GTE and AT&T 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.

9.1 Interface Testing

The Parties agree to usage interface testing between GTE and AT&T. The purpose of this test is to ensure that the usage described in Section II preceding can be sent by either Party and can be accepted and processed by the other Party. GTE will provide a test file to AT&T's designated Regional Processing Center (RPC) in the format that will be used for live day-to-day processing. The file will contain one (1) full day's production usage. The format of the file will conform to the requirements shown in Section III. AT&T will review the file and verify that it conforms to its data center requirements. AT&T will notify GTE in writing whether the format is acceptable. AT&T will also provide GTE with the agreed-upon control reports as part of this test.

AT&T will provide a test file to GTE's designated Regional Processing Center (RPC) in the format that will be used for live day-to-day processing. The file will contain one (1) full day's production usage. The format of the file will conform to the requirements shown in Section III. GTE will review the file and verify that it conforms to its data center requirements. GTE will notify AT&T in writing whether the format is acceptable. GTE will also provide AT&T with the agreed-upon control reports as part of this test.

9.2 Operational Test

The purpose of this test is to ensure that volumes of usage in consecutive sequence can be extracted, distributed, and processed by GTE and AT&T.

GTE is required to provide AT&T with GTE recorded, unrated usage (as defined in Section 2) for a minimum of five (5) consecutive days. AT&T will provide GTE with the message validation reports associated with test usage.

AT&T will rate and process the unrated intraLATA toll and local usage. AT&T will process this data to test bills. AT&T 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.

9.3 Test File

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

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SECTION VI: POST DEPLOYMENT ACTIVITIES

1. General

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

9.1 Control Maintenance And Review

9.1.1 Periodic Review

Control procedures for all usage transferred between GTE and AT&T will require periodic review. This review may be included as part of an annual audit of GTE by AT&T or as part of the normal production interface management function. Breakdowns which impact the flow of usage between GTE and AT&T 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 AT&T and GTE.

9.1.2 Retention of Records

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

9.2 GTE Software Changes

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

GTE will communicate the projected changes to the appropriate groups in AT&T so that potential impacts on AT&T processing can be determined.

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AT&T personnel will review the impact of the change on the entire control structure as described in Section 1.5, Post Conversion Test Plan, herein. AT&T will negotiate any perceived problems with GTE and will arrange to have the data tested utilizing the modified software.

If it is necessary for GTE to request changes in the schedule, content or format of usage data transmitted to AT&T, GTE will notify AT&T.

9.3 AT&T Requested Changes

If it is necessary for AT&T to request changes in the schedule, content, or format of the usage data transmitted from GTE, AT&T will notify GTE.

When the negotiated changes are to be implemented, AT&T and/or GTE will arrange for testing of the modified data as described in Section 1.5, Post Conversion Test Plan.

9.4 AT&T Software Changes

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

The AT&T contact will communicate the projected changes to the appropriate groups in GTE so that potential impacts on GTE processing can be determined.

AT&T will negotiate any perceived problems with GTE 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.

9.5 Post-Conversion Test Plan

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

9.5.1 GTE System Change Description

For a GTE system change, GTE shall provide AT&T 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, GTE shall provide a list of the specific records and/or systems impacted by the change to designated AT&T personnel.

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

9.5.2 Change Negotiations

GTE and AT&T will provide mutual written change notifications. AT&T shall be notified in writing of all proposed change negotiations initiated by GTE. In turn, AT&T will notify GTE of proposed change negotiations initiated by AT&T.

After formal notification of planned changes, whether originated by GTE or AT&T, designated AT&T personnel will schedule negotiation meetings as required with designated GTE 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, GTE shall provide the detailed description of changes to be implemented. After reviewing the described changes, designated AT&T personnel will negotiate a detailed test procedure with GTE.

9.5.3 Control Change Analysis

Based on the detailed description of the changes provided by GTE, and the review of the projected changes by AT&T, designated AT&T personnel will:

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

9.5.4 Verification Of Changes

Based on the detailed description of changes furnished by GTE, designated AT&T personnel will:

- 9.5.4.1 Determine the type of change(s) to be implemented.
- 9.5.4.2 Develop a comprehensive test plan.
- 9.5.4.3 Negotiate scheduling and transfer of modified data with GTE.
- 9.5.4.4 Negotiate testing of modified data with the appropriate AT&T RPC.
- 9.5.4.5 Negotiate processing of verified data through the AT&T billing system with the RPC.
- 9.5.4.6 Arrange for review and verification of testing with appropriate AT&T groups.
- 9.5.4.7 Arrange for review of modified controls, if applicable.

9.5.5 Introduction of Changes

When all the testing requirements have been met and the results reviewed and accepted, designated AT&T personnel will:

- 9.5.5.1 Negotiate an implementation schedule.
- 9.5.5.2 Verify the existence of a contingency plan with the appropriate AT&T personnel.
- 9.5.5.3 Arrange for the follow-up review of changes with appropriate AT&T personnel.
- 9.5.5.4 Arrange for appropriate changes in control program, if applicable.
- 9.5.5.5 Arrange for long-term functional review of impact of changes on the AT&T billing system, i.e., accuracy, timeliness, and completeness.

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SECTION VII: SUBAPPENDICES

SUMMARY OF SUBAPPENDICES

Subappendix A

Physical Characteristics Of Data Tapes/
Cartridges

Subappendix B

Message Validation Pack Reject Report (A7287)

Subappendix C

Message Validation Pack Accepted Report (A7288)

Subappendix D

Message Validation EMR Detail Error Report (A7289)

Subappendix E

Special Features Star Services

SUBAPPENDIX A

PHYSICAL CHARACTERISTICS OF DATA TAPES/CARTRIDGES

Data transported to AT&T by GTE, or to GTE by AT&T, 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 with variable length records | 104 bytes EMR compacted format plus location modules as applicable. |

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SUBAPPENDIX B

MESSAGE VALIDATION PACK REJECT REPORT (A7287)

MM/DD/YY HH:MM:SS

RETEN CODE: 01R-00300

| COMPANY XX | | | | | REMOTE 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 |
| | | | | | | | TOTAL |
| REC. TRAILER | RECORD ID COUNT | DATE CREATED | INVOICE NUMBER | BELL CO ID | BELL RAO | IX CARRIER | IND CO ID |
| | 999999 | 99-99-99 | 99 | 99 | 999 | 999 | 9999 |
| | | | | | | | 99,999 |

| ERRORS | ERROR CODE | ERROR MESSAGE |
|--------|------------|---------------|
|--------|------------|---------------|

EC99.9

[illegible]

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SUBAPPENDIX B (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. |

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SUBAPPENDIX C - MESSAGE VALIDATION PACK ACCEPTED REPORT (A7288)

MM/DD/YY-----HH:MM:SS
RETEN CODE: 01R-00300

COMPANY XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX FROM RAO INVOICE NO. DATE CREATED
TOTAL RECORDS RECEIVED

-----999-----99-----MM/DD/YY-----
-----ZZ.ZZ9

| COUNTS-----MESSAGE COUNTS----- | | | | | -----RECORD | | | | | |
|--------------------------------|----------------|--------|--------|--------|----------------------------|----------|---------|--------|-------|----------|
| RECORD ID | TYPE OF RECORD | | | | VALID | REJECTED | DROPPED | TOTAL | VALID | REJECTED |
| --DROPPED-- | TOTAL | | | | | | | | | |
| 010102 | | | | | OUTWATS (NON-SMDR) | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | |
| ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | | | | | |
| 010103 | | | | | OUTWATS (SMDR) | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | |
| ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | | | | | |
| 010104 | | | | | 800 SERVICE | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | |
| ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | | | | | |
| TOTAL WATS/800 | | | | | | | | | | |
| 010101 | | | | | MTS | ZZ.ZZ9 | ZZ.ZZ9 | | | |
| ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | | | | | |
| 010106 | | | | | NON-DIAL CONFER BRIDGE | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | |
| ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | | | | | |
| 010107 | | | | | NON-DIAL CONFER LEG RECORD | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | |
| ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | | | | | |
| 010108 | | | | | DIAL CONFERENCE BRIDGE | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | |
| ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | | | | | |
| 010111 | | | | | ALLIANCE (AGTC) | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | |
| ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | | | | | | |

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| | | | | | | | | |
|--------------------------|---------|---------|---------|---------|---------------------------------|--------|--------|--------|
| 010116 | | | | | DIAL-IT SERVICE | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 010132 | | | | | DIRECTORY ASSISTANCE | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 010180 | | | | | MARINE/AIRCRAFT | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 010181 | | | | | RADIO LINK | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 010182 | | | | | MARINE NON-DIAL CONFER BRIDGE | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 010183 | | | | | MARINE NON-DIAL CONFER LEG REC. | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 0101XX | | | | | OTHER MTS RECORDS | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| TOTAL NORTH AMERICAN MTS | | | | | | | | |

| | | | | | | | | |
|--------------------|---------|---------|---------|---------|------------------|--------|--------|--------|
| 010201 | | | | | IOTC/IDDD MTS | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 0102XX | | | | | IOTC/IDDD OTHERS | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 010301 | | | | | IOTC BFC MTS | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 0103XX | | | | | IOTC BFC OTHERS | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 010401 | | | | | IOC MTS | | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | |
| 0104XX | | | | | IOC OTHERS | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| 010501 | | | | | IOC MTS | | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | |
| 0105XX | | | | | IOC OTHERS | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | | |
| TOTAL OVERSEAS MTS | | | | | | | | |

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| | | | | | | | |
|-------------------------------|---------|---------|---------|------------------------------|--------|---------|---------|
| 015002 | | | | OUTWATS LINE SUMMARY | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | |
| 015004 | | | | 800 LINE SUMMARY | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | |
| 015032 | | | | DIR. ASSISTANCE LINE SUMMARY | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | |
| TOTAL OVERSEAS MTS | | | | | | | |
| 03XXXX | | | | CREDIT REQUESTS | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | |
| 51/52 | | | | CANCEL REQUESTS | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | |
| 71/72 | | | | CORRECTION REQUESTS | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 |
| ZZ.ZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | ZZ.ZZZ9 | | | |
| INVALID RECORD IDENTIFICATION | | | | ZZ.ZZ9 | | ZZ.ZZZ9 | ZZ.ZZZ9 |
| ZZ.ZZZ9 | | | | | | | |
| PACK TOTALS | | | | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZ9 | ZZ.ZZZ9 |

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SUBAPPENDIX D

PAPER COPY OF A REPORT TO BE INCLUDED WITH DISTRIBUTION

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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/..... This feature allows a customer to redial a number when a Busy signal is encountered.
Last Number Redial
- 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) [Intentionally Deleted]
- 4) 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 'Specialized Service/Service Provider' 425001 record should be used and be populated as follows:

| CONNECT TIME | POSITIONS 55 - 60 | MUST BE POPULATED |
|--------------|-------------------------|--|
| TEXT CODE | POSITIONS 135 - 139 | 1) BUSY REDIAL/LAST NUMBER REDIAL POPULATE WITH '00003' |
| TEXT CODE | POSITIONS 135 - 139 | 2) CALL RETURN/LAST NUMBER REDIAL POPULATE WITH '00004' |
| TEXT CODE | [Intentionally Deleted] | 3) [Intentionally Deleted] |
| TEXT CODE | POSITIONS 135-139 | 4) 3-WAY CALLING POPULATE WITH '00004' |
| TEXT CODE | POSITIONS 135-139 | 5) AUTOMATIC REDIAL POPULATE WITH '00003' |

NOTE: For fields not specifically defined, the standard EMR format for a 10 01 18 record should be used.

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APPENDIX II
TO
ATTACHMENT 7

LOCAL
ACCOUNT MAINTENANCE

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LOCAL ACCOUNT MAINTENANCE REQUIREMENTS

1. GENERAL

In a Resale environment the goal is to enable AT&T to create an account maintenance structure congruent to GTE. In the current LEC environment, the LEC has access to all of the customer account data, network switch activity and current status, and new and existing customer account data. In order to obtain the data necessary to satisfy AT&T Local Account Maintenance requirements, GTE must support three key Local Account Maintenance requirements.

1.1 REQUIREMENT #1 - LSP Change Notification Feed

Situation: A Customer initiates a change from AT&T to another LSP by contacting the New LSP. (LSP Change Notification Feed)

GTE shall issue and provide to AT&T at the end of each business day a service activation report in an electronic format reflecting change activity occurring on the previous day.

Create an end-of-day LSP Change Notification Feed:

Purpose: To convey to AT&T that a customer has left the LSP and moved to a new LSP. The new LSP could either be another Reseller, GTE or Facilities based provider.

Data Delivery Schedule: Five days a week, volumes fluctuating with change activity.

Data Transfer Requirements: Batch feed, sent end-of-day, via Connect/Direct NDM sent within 24 hours of the switch being provisioned.

AT&T Data Center Receiving NODE: NDMATTA1

Dataset Name: TMCD.LOCAL.LSPOUT.(+1) = Generation dataset

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1.2 REQUIREMENT #2 - LSP SERVICE ORDER PIC ONLY CHANGE PROCESS

Situation: Customer has AT&T for Local Service and contacts AT&T requesting a change of PIC only from one LD Carrier to another.

AT&T Local Process: LD PIC Changes will be accepted by AT&T. AT&T will enter the PIC Change into the service order system, and will generate an LD PIC Change Order which will be sent to GTE for provisioning.

SWP Requirement: Accept a PIC Only Change for an existing AT&T customer via the current Service Order feed. Provision the network, and convey the confirmation of the PIC Only order via the current Work Order Completion feed.

1.3 REQUIREMENT #3 - IXC PIC CHANGE PROCESS

Situation: Customer has AT&T and contacts a New IXC to change PIC to new LD Carrier.

Upon receipt of an IXC-initiated '01' PIC order on a Resold line:

- GTE will reject the '01' order. Create the appropriate Industry Standard '3148', with the Local Service Provider ID of the Reseller and send the reject to the originating IXC. The reject must be returned within one business day.

NOTE: If GTE refuses to provide the Local Service Provider ID the record can be rejected with the Industry Standard transaction code '3147'.

1.4 PIC Restricted

In order for GTE to appropriately reject an IXC initiated "01" PIC Order on an AT&T WTN, GTE must implement a specific up-front edit. Do not apply a 'PIC Freeze' or a 'PIC Restriction'.

If the submitted WTN is a resold line assigned to AT&T (LSP ID 7421), reject the "01" PIC order with TCSI 3148. Populate LSP ID 7421 in the CARE record and return to the submitting IXC. If GTE were to reject the order for the reason of "restricted PIC" rather than "resold line," the

submitting IXC would not know the line was resold. This would further delay the IXC's attempt to provision the line with the correct LSP.

- The above edit process has nothing to do with "PIC Restriction." It is not AT&T's intent to provide GTE with end user PIC Restriction information since an end user's request for PIC restriction will be resident only on AT&T data bases. IXC initiated PIC orders received by AT&T will be edited for restricted PIC and returned to the submitting IXC with the appropriate reject TCSI if the WTN is found to be restricted.

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GLOSSARY OF TERMS

| <u>Acronym</u> | <u>Definition</u> |
|----------------|----------------------------------|
| ALEC | Alternate Local Exchange Carrier |
| CARE | Customer Account Record Exchange |
| CTI | Customer Type Indicator |
| Incumbent LEC | Incumbent Local Exchange Company |
| ISI | Industry Support Interface |
| IXC | Interexchange Carrier |
| LAM | Local Account Maintenance |
| LD | Long Distance |
| LEC | Local Exchange Company |
| LERG | Local Exchange Routing Guide |
| LSP | Local Service Provider |
| NDM | Network Data Mover |
| OCN | Operating Company Number |
| OUTPLOC | LSP CHANGE NOTIFICATION |
| PIC | Primary Interexchange Carrier |
| PLOC | Primary Local Operating Carrier |
| S/O | Service Order |
| SWP | Switch Provider |
| WTN | Working Telephone Number |

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ATTACHMENT 8

INTERIM NUMBER PORTABILITY

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|---|--------------------|
| 1. PROVISIONING OF INTERIM NUMBER PORTABILITY | 1 |
| 2. INTERIM NUMBER PORTABILITY (INP) METHODS | 1 |
| 3. REQUIREMENTS FOR INP..... | 2 |

INTERIM NUMBER PORTABILITY

1. Provisioning of Interim Number Portability

The Parties shall provide to each other where applicable and to the extent technically feasible, interim number portability (INP) in accordance with the requirements of the Act and FCC 96-286. INP will be provided with minimum impairment of functionality, quality, reliability and convenience to subscribers of AT&T services. INP by Remote Call Forwarding shall be made available for ordering by AT&T upon approval of this Agreement. The Parties agree that the requirements and obligations imposed on GTE under this Attachment 8 and this entire Agreement with respect to number portability shall apply reciprocally to AT&T in locations where number portability from AT&T to GTE is applicable.

- 1.1 In addition, except for the loss of features that may be occasioned by the use of Remote Call Forwarding or other number portability technologies, the AT&T Customer may retain its local telephone number with no loss of features and functionalities; and 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 AT&T Customer shall be equal in quality to that experienced by a similarly-situated GTE Customer with Remote Call Forwarding or other number portability technology, as the case may be.

2. Interim Number Portability (INP) Methods

2.1 INP Methods

INP shall be provided by Remote Call Forwarding (RCF) or Direct Inward Dialing (DID). AT&T shall specify on a per telephone number basis which method is to be employed and GTE shall provide such method to the extent technically feasible. If DID is ordered but not immediately available, AT&T may choose another available INP method until the requested service is available, provided, however, that GTE shall provide to AT&T the requested service within six (6) months of the approval of this Agreement. AT&T and GTE agree that AT&T may identify additional or revised methods of interim number portability. All such additional or modified methods of interim number portability shall be subject to the Bona Fide Request Procedures outlined in Attachment 12.

2.2 Remote Call Forwarding

Remote Call Forwarding (RCF) is an existing switch-based GTE 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 GTE switch to which the ported number was previously assigned. The GTE switch will then forward the call to a number with an NXX associated with the AT&T operated switch to which the number is ported. AT&T shall specify the number of paths required to handle multiple simultaneous calls to the same ported telephone number.

2.3 Direct Inward Dialing

When a call to the ported number reaches the GTE switch, DID will route the dialed number directly to AT&T, over end-office to end-office, one-way DID trunking with multi-frequency (MF) signaling for call completion.

2.3.1 DID does not allow for overflow routing. MF signaling does not allow for passing the Calling Party Line Identification (CLID) to AT&T.

2.3.2 [Intentionally Deleted]

2.3.3 GTE shall disclose to AT&T any technical or capacity limitations that would prevent use of a requested INP implementation in a particular switching office. GTE and AT&T shall cooperate in the process of provisioning INP to minimize customer out-of-service time.

2.4 [Intentionally Deleted.]

2.5 [Intentionally Deleted.]

3. Requirements for INP

3.1 White and Yellow Page Listings

GTE shall provide and maintain for AT&T one (1) white page and one (1) yellow page (if applicable) listing for each AT&T subscriber that has ported its number from GTE, consistent with that specified for Provisioning in this Agreement.

3.2 The listing and handling of listed and nonlisted telephone numbers will be at least at parity with that provided by GTE to its own customers.

3.3 Cutover Process

GTE shall cooperate in the process of porting numbers from one carrier to the other so as to limit service outage for the ported subscriber.

3.4 Testing

GTE shall cooperate in testing ported telephone numbers to assure call completion.

3.5 Non-Geographic Numbers

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

3.5.1 Compensation arrangements for terminating local traffic between GTE and AT&T shall apply to ported calls.

3.5.2 GTE shall pay to AT&T a portion of the terminating access revenue for calls transported from the interexchange carrier to AT&T via a GTE porting office.

3.6 Treatment of TLN Calling Cards

3.6.1 Where Currently Available and where AT&T is purchasing LIDB services from GTE, GTE shall allow AT&T to order provisioning of TLN calling cards and Billed Number Screening (BNS), in its LIDB, for numbers ported on an interim basis, as specified by AT&T. GTE shall continue to allow AT&T access to its LIDB. Other LIDB provisions are specified in this Agreement.

3.7 911

AT&T shall have the right to use the existing GTE 911 infrastructure for all 911 capabilities. With respect to 911 service associated with ported numbers under INP, AT&T shall provide to GTE in GTE's capacity as administrator of the PSAP's ALI (Automatic Location Identification) database, current subscriber address records keyed to AT&T's shadow number and including GTE's ported number and GTE's company identification number as established by the National Emergency Number Association (NENA). GTE will provide the AT&T records to the ALI database as promptly as it provides its own records. GTE will work with AT&T to establish a process to verify the accuracy of the information in the PSAP's database.

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ATTACHMENT 9

NETWORK SECURITY

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| 4. Impairment of Service | 4 |

NETWORK SECURITY

1. Protection of Service and Property

GTE shall exercise the same degree of care to prevent harm or damage to AT&T, its employees, agents or customers, or their property as it employs to protect its own personnel, customers and property, etc. GTE, its employees, agents, or representatives agree to take reasonable and prudent steps to protect AT&T property and services, including, but not limited to:

- 1.1 Restricting access to AT&T's collocation space as set forth in applicable GTE state and federal collocation tariffs. Additionally, GTE agrees that the following terms and conditions shall apply to access to AT&T's collocation space:
 - 1.1.1 GTE shall implement adequate measures to control access to collocation cages.
 - 1.1.2 Collocation space shall comply with all applicable fire and safety codes.
 - 1.1.3 Doors with removable hinges or inadequate strength shall be monitored by an alarm connected to a manned site. All other alarms monitoring AT&T collocation space provided by GTE shall also be connected to a manned site. AT&T may, at its option, provide its own intrusion alarms for its collocated space.
 - 1.1.4 GTE shall control janitorial access to collocation cages, and restrict such access to approved and certified employees, agents or contractors.
 - 1.1.5 GTE shall establish procedures for access to collocation cages by GTE and non-GTE emergency personnel, and shall not allow access by security guards unless such access comports with this section and is otherwise allowed under applicable GTE state and federal collocation tariffs.
 - 1.1.6 GTE shall retain a master key to AT&T's collocation space for use only in event of emergency as detailed in applicable GTE state and federal tariffs. At AT&T's option, the Parties shall review key control procedures no more frequently than twice in any twelve month period. At any time, AT&T may elect to change keys if it suspects key control has been lost, provided, however, that GTE will be provided with a master key in accord with this section.
 - 1.1.7 Not more frequently than twice a year, AT&T may audit the security and access procedures and equipment applicable to its collocated space and the central office housing the collocation space. Access by personnel

necessary to conduct such an audit shall be limited as set forth in applicable GTE state and federal collocation tariffs. Should AT&T identify deficiencies in security and access procedures and equipment, as a result of such audits or otherwise, the cost, terms and conditions of the correction of such deficiencies shall be negotiated in good faith between the Parties.

- 1.2 In order to protect customer proprietary information, ensure both ongoing operational and update integrity of databases, and control access to the ability to disconnect end users on authorized ports, in cases in which there are shared systems access to GTE systems, GTE will provide access controls to its system based upon GTE's internal security standards, which standards shall include, at minimum, traditional log in and password procedures. AT&T shall be responsible for AT&T control installation.

2. Revenue Protection

- 2.1 The Parties shall work cooperatively with each other to utilize present and future fraud prevention or revenue protection features, including prevention, detection, or control functionality embedded within the network. These features may include screening codes, call blocking of international, 800, 900/976, and 700 numbers and the capability to require end-user entry of an authorization code for dial tone on a per line basis, in accordance with applicable laws, regulations and tariffs. GTE will provide call blocking of 700 and 800/888 numbers when Currently Available and when made available to GTE end users, in accordance with applicable laws, regulations and tariffs. Upon AT&T's request, GTE shall provide AT&T with information generated by the fraud prevention or revenue prevention features of its network relevant to fraudulent use of services by AT&T's customers.
- 2.2 If AT&T has uncollectible or unbillable revenue resulting from, but not confined to, provisioning, maintenance, or signal network routing errors which are the responsibility of GTE, GTE shall issue AT&T a credit for the monthly recurring charge or other charges for the underlying Local Service or Network Element on a pro-rata basis for the period of time during which the error occurred.
- 2.3 If AT&T has uncollectible or unbillable revenue resulting from the accidental or malicious alteration of software underlying Network Elements or their subtending operational support systems by unauthorized third parties for which GTE has administrative control of access to said Network Element or operational support system software, GTE shall issue AT&T a credit for the monthly recurring charge or other charges for the underlying Local Service Network or Network Element on a pro-rata basis for the period of time during which the alteration occurred.

2.4 If AT&T has uncollectible or unbillable revenue resulting from the unauthorized physical attachment to loop facilities (under GTE's responsibility or control) from the Main Distribution Frame up to and including the Network Interface Device, including clip on fraud, GTE shall issue AT&T a credit for the monthly recurring charge or other charges for the underlying Local Service or Network Element on a pro-rata basis for the period of time during which the unauthorized attachment occurred.

2.5 GTE shall provide quick/soft dial tone to allow only the completion of calls to termination points required by law and to establish service.

3. Law Enforcement Interface

3.1 Only if available in connection with GTE's operation of its own business, GTE shall provide seven day a week/twenty-four hour a day installation and information retrieval pertaining to emergency traps, assistance involving emergency traces and emergency information retrieval on customer invoked CLASS services, including, without limitation, call traces requested by AT&T.

3.2 GTE agrees to work jointly with AT&T in security matters to support law enforcement agency requirements for taps, traces, court orders, etc. Charges for providing such services for AT&T Customers will be billed to AT&T.

3.3 GTE will, in nonemergency situations, inform the requesting law enforcement agencies that the end-user to be wire tapped, traced, etc. is an AT&T Customer and shall refer them to AT&T.

4. Impairment of Service

4.1 The characteristics and methods of operation of any circuits, facilities or equipment of either Party connected with the services, facilities or equipment of the other Party pursuant to this Agreement shall not interfere with or impair service over any facilities of the other Party, its affiliated companies, or its connecting and concurring carriers involved in its services, cause damage to their plant, violate any applicable law or regulation regarding the invasion of privacy of any communications carried over the Party's facilities or create hazards to the employees of either Party or to the public (each hereinafter referred to as an "Impairment of Service").

4.2 If either Party causes an Impairment in Service, the Party whose network or service is being impaired (the "Impaired Party") shall promptly notify the Party causing the Impairment of Service (the "Impairing Party") of the nature and location of the problem and that, unless promptly rectified, a temporary discontinuance of the use of any circuit, facility or equipment may be

required. The Impairing Party and the Impaired Party agree to work together to attempt to promptly resolve the Impairment of Service. If the Impairing Party is unable to promptly remedy the Impairment of Service, then the Impaired Party may at its option temporarily discontinue the use of the affected circuit, facility or equipment.

ATTACHMENT 10

ACRONYMS

| ACRONYM | DEFINITION |
|---------------|--|
| AAA | American Arbitration Association |
| 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 |
| ATIS | Alliance for Telecom Industry Solutions |
| ATM | Asynchronous Transfer Mode |
| BICI | Broadband Inter-Carrier Interface |
| BITS | Building Integrated Timing Supply |
| BLV | Busy Line Verification |
| BRCS | Business and Residential Customer Service |
| C | Network Element Combination |
| C-DTTA | Combo of Dedicated Transport & Tandem |
| C-LPLS | Combo of Loop & Local Switching |
| C-LSCTSSDBTS | * [Combinations] |
| CABS | Carrier Access Billing Systems |
| CAMA ANI | Centralized Automatic Message Accounting - Automatic Number Identification |
| CAP | Competitive Access Provider |
| CARE | Customer Account Record Exchange |
| CCITT | Consultative Committee on International Telegraph & Telephone |
| CCS | Communications Channel Signaling |
| CCSNIS | Common Channel Signaling Network Interface Specification |
| CIC | Carrier Identification Code |
| CLASS | Custom Local Area Signaling Service |
| CLC | Carrier Liaison Committee |
| CLEC | Competitive Local Exchange Carrier |
| CLLI | Common Language Location Identifier |

*Combo of: Local Switching, Common Transport, Signaling, Databases & Tandem Switching

| | |
|--------|--|
| CMIP | Coded Mark Inversion Protocol |
| CO | Central Office |
| CPE | Customer Premises Equipment |
| - CRDD | Customer Requested Due Dates |
| CT | Common Transport |
| CTI | Customer Type Indicator |
| CY | Current Year |
| DA | Directory Assistance |
| DACS | Digital Access Crossconnect Systems |
| DB | Database |
| DB | Service Central Points/Databases |
| DCC | Data Communications Channel |
| DCS | Digital Cross-Connect System |
| 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 |
| DS0 | Digital Signal Level Zero |
| DSN | Data Set Name |
| DSX | Digital Cross Connect |
| DT | Dedicated Transport |
| DTMF | Dual-Tone Multi Frequency |
| E | 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 |
| EFT | Electronic Fund Transfer |
| EI | Electronic Interface |
| EI | Emergency Interrupt |
| EMR | Exchange Message Record |
| EO | End Office |
| ESF | Extended Super Frame |
| ESL | Essential Service Line |
| ETTR | Estimated Time to Repair |
| 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 |
| HDT | Host Digital Terminal |
| HFC | Hybrid Fiber Coax |
| HFC-HDT | Hybrid Fiber Coax – Host Digital Terminal |
| 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 |
| INA | Integrated Network Access |
| Incumbent LEC | Incumbent Local Exchange Company |
| INP | Interim Number Portability |
| ISDN | Integrated Services Digital Network |
| ISDNUP | Integrated Services Digital Network User Part |
| ISI | Industry Support Interface |
| 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 Carrier |
| LAM | Local Account Maintenance |
| LARG | LIDB Access Routing Guide |
| LASS | Local Area Signaling Services |
| LATA | Local Access Transport Area |
| LC | Loop Concentrator/Multiplexor |
| LCC | Line Class Code |
| 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 |