deploys a different technology for Subloop Concentration Multiplexing Functionality in its network, the Parties will negotiate rates, terms and conditions for TCG's access to such Subloop Concentration Multiplexing Functionality.

5.1.5.3.9   If technically feasible, BellSouth shall provide TCG access to the Subloop Concentration Multiplexing Functionality in response to a specific TCG request. Otherwise, TCG would be required to place a cross-box, remote terminal, or other similar device and deliver a cable to the BellSouth remote terminal. This cable would be connected, by a BellSouth technician, to a cross-connect panel within the BellSouth RT/cross-box and would allow TCG's subloops to then be placed on the Subloop Concentration Multiplexing Functionality.

5.1.5.3.10   The Subloop Concentration Multiplexing Functionality shall be provided to TCG in accordance with applicable industry standard technical references.

5.1.5.3.11   BellSouth shall provide TCG real time performance and alarm data that may affect TCG's traffic, if and when technically feasible and to partition such data for TCG where feasible.

5.1.5.3.12   At TCG's option BellSouth shall provide TCG with real time ability to initiate non service-affecting tests on the underlying device that provides Subloop Concentration Multiplexing Functionality.

5.1.6   Subloop Feeder

5.1.6.1   Definition

5.1.6.1.1   The Subloop Feeder is the Network Element that provides connectivity between (1) a FDI associated with Subloop Distribution and a termination point appropriate for the media in a central office, or (2) a Subloop Concentration Multiplexing Functionality provided in a remote terminal and a termination point appropriate for the media in a central office.   If technically feasible, BellSouth shall provide TCG physical access to the FDI, and the right to connect the Subloop Feeder to the FDI in response to a specific TCG request. Otherwise, BellSouth shall provide the necessary cabling between BellSouth's equipment (i.e., FDI) and TCG's equipment.

5.1.6.1.2   The physical medium of the Subloop Feeder may be copper twisted pair, coaxial (if deployed), or single or multi-mode fiber. In certain cases, BellSouth must provide a copper twisted pair loop even in instances where the medium of the Subloop Feeder for services that BellSouth offers is other than a copper facility, and in such cases, the

special construction process will be used to determine the cost of placing new copper facilities.

5.1.6.2   Requirements for Subloop Feeder

5.1.6.2.1   The Subloop Feeder shall be capable of transmitting analog voice frequency, basic rate ISDN, digital data, or analog radio frequency signals, where available in BellSouth's network.

5.1.6.2.2   BellSouth shall provide appropriate power for all active elements in the Subloop Feeder. BellSouth will provide appropriate power from a central office source, or from a commercial AC source with rectifiers for AC to DC conversion and 8-hour battery back-up when the equipment is located in an outside plant RT, where BellSouth provides such functionality to itself.

5.1.6.3   Additional Requirements for Special Copper Subloop Feeder Medium

5.1.6.3.1   In addition to requirements set forth in Section 5.1.6.2 above, and where available in the BellSouth network, TCG may require BellSouth to provide copper twisted pair Subloop Feeder which are unfettered by any intervening equipment (e.g. filters, load coils, and range extenders), so that TCG can use these Subloop Feeders for a variety of services by attaching appropriate terminal equipment at the ends.

5.1.6.4   Additional Technical Requirements for DS1 Conditioned Subloop Feeder

5.1.6.4.1   In addition to the requirements set forth in this Section and where available in the BellSouth network, TCG may designate that the Subloop Feeder be conditioned to transport a DS1 signal. The requirements for such transport are defined in the applicable industry standard technical references.

5.1.6.5   Additional Technical Requirements for Optical Subloop Feeder

5.1.6.5.1   Where available in BellSouth's network TCG may designate that Subloop Feeder will transport DS3 and OCn (where n is defined in the industry standard technical reference). The requirements for such transport are defined in the applicable industry standard technical references.

5.1.6.6   Interface Requirements

5.1.6.6.1   If TCG desires access to unbundled Subloop Feeder in a BellSouth Central Offices, the Subloop Feeder point of termination ("POT") will be as follows:

5.1.6.6.1.1   Copper twisted pairs shall terminate on the MDF;

5.1.6.6.1.2   DS1 Subloop Feeder shall terminate on a DSX1, DCS1/0 or DCS3/1; and

5.1.6.6.1.3   Fiber Optic cable shall terminate on a LGX.

6   Switching Capabilities

6.1   BellSouth shall provide non-discriminatory access to local circuit switching capability, and local tandem switching capability, on an unbundled basis, except as set forth below in Section 6.3 of this Attachment 2, to TCG for the provision of a telecommunications service. BellSouth shall provide non-discriminatory access to packet switching capability on an unbundled basis to TCG for the provision of a telecommunications service only in the limited circumstance.

6.2   Except as otherwise provided for herein, BellSouth shall not impose any restrictions on TCG regarding the use of Switching Capabilities purchased from BellSouth provided such use does not result in demonstrable harm to either the BellSouth network or personnel or the use of BellSouth's network by BellSouth or any other telecommunications carrier.

6.3   Local Circuit Switching Capability, including Tandem Switching Capability.

6.3.1   Definition

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

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

6.3.1.2.1   In the event that TCG orders local circuit switching for a single end user account name at a single physical end user location with four (4) or more 2-wire voice-grade loops from a BellSouth central office in an MSA listed above, BellSouth shall charge TCG the market based rate in Exhibit A for use of the local circuit switching functionality for the affected facilities.

6.3.1.3   When BellSouth provides the local circuit switching, BellSouth will provide to TCG, upon request, customized routing (selective routing) of calls: (i) to a requested directory assistance services platform; (ii) to a requested operator services platform; (iii) for TCG's PIC'ed toll traffic in a two (2) PIC environment to an alternative OS/DA platform designated by TCG or (iv) to a repair center. TCG end users may use the same dialing arrangements as BellSouth end users. BellSouth shall allow TCG to commingle local and toll OS and/or DA traffic on existing OS and/or FGD trunks. Customized routing will include but not be limited to the customized routing of inter-switch traffic (i.e. between one or more of BellSouth's, TCG's or Third's switch) on a wire center NPA-NXX basis to a port other than the standard routing used by BellSouth.

6.4   AIN Customized (Selective) Carrier Routing

6.4.1   BellSouth will provide AIN customized carrier routing at the request of TCG. AIN customized carrier routing will provide TCG with the capability of routing operator calls, 0+ and 0- and 0+ NPA (LNPA) 555-1212 directory assistance, 1+411 directory assistance and 611 repair center calls, to pre-selected destinations.

6.4.2   TCG shall order AIN customized carrier routing through its Account Team. AIN customized carrier routing must first be established regionally and then on a per central office, per state basis.

6.4.3   AIN customized carrier routing is not available in DMS 10 switches.

6.4.4   Where AIN customized carrier routing is utilized by TCG, the routing of TCG's end user calls shall be pursuant to information provided by TCG and stored in BellSouth's AIN customized carrier routing service control point database. AIN customized carrier routing shall utilize a set of line class codes ("LCCs") unique to a basic class of service assigned on an "as needed" basis. The same LCCs will be assigned in each central office where AIN customized carrier routing is established.

6.4.5   Upon ordering of AIN customized carrier routing regional service, TCG shall remit to BellSouth the regional service order non-recurring charges set forth in Exhibit A of this Attachment, incorporated herein by this reference. There shall be a non-recurring end office establishment charge per office due at the addition of each central office where AIN customized carrier routing will be utilized. Said non-recurring charge shall be as set forth in Exhibit A of this Attachment, incorporated herein by this reference. For each TCG end user activated, there shall be a non-recurring end user establishment charge as set forth in Exhibit A of this Attachment, payable to BellSouth pursuant to the terms of this Section 6.4, incorporated herein by this reference. TCG shall pay the AIN customized carrier routing per query charge set forth in Exhibit A of this Attachment, incorporated herein by this reference.

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

6.4.7   The non-recurring end office establishment charge will be billed to TCG following BellSouth's normal monthly billing cycle for this type of order.

6.4.8   End user establishment orders will not be turned-up until the second payment is received for the regional service order. The non-recurring end user establishment charges will be billed to TCG following BellSouth's normal monthly billing cycle for this type of order.

6.4.9   Additionally, the AIN customized carrier routing per query charge will be billed to TCG following the normal billing cycle for per query charges.

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

6.5   Technical Requirements

6.5.1   Local Switching shall be at least equal to the requirements for Local Switching set forth in the applicable industry standard technical references.

6.5.2   BellSouth's local switch shall maintain translations necessary to direct AIN queries for selected lines and dialing sequences to the TCG Signaling System 7 ("SS7") network.

6.5.3   BellSouth's local switch shall accept mutually agreeable AIN responses from the TCG Service Control Point ("SCP") via SS7 network interconnection then continue call handling according to instructions contained in the response.

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

6.5.5   BellSouth shall activate service for an TCG end user or network interconnection on any of the local circuit switching interfaces. This includes provisioning changes to change an end user from BellSouth's services to TCG's services without loss of switch feature functionality as defined in this Agreement.

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

6.5.7   BellSouth shall repair and restore any equipment or any other maintainable component that may adversely impact local circuit switching.

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

6.5.9   BellSouth shall perform manual call trace and permit end user originated call trace.

6.5.10   For local switching used as 911 Tandems, BellSouth shall allow interconnection from TCG local switching elements and BellSouth shall route the calls to the appropriate Public Safety Access Point ("PSAP").

6.5.11   Special Services provided by BellSouth will include the following:

6.5.11.1   Essential service lines;

6.5.11.2   Telephone Service Prioritization;

6.5.11.3   Related services for handicapped;

6.5.11.4   Soft dial tone where required by law; and

6.5.11.5   Any other service required by law.

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

6.5.13   BellSouth shall provide interfaces to adjuncts in accordance with the technical specifications set forth in the applicable industry standard technical references. These adjuncts can include, but are not limited to, the Service Circuit Node and Automatic Call Distributors.

6.5.14   BellSouth shall provide performance data regarding an end user line, traffic characteristics or other measurable elements to TCG, upon a reasonable request from TCG. TCG will pay BellSouth for all costs incurred to provide such performance data through the process set forth in Section 13 of the General Terms and Conditions of this Agreement, incorporated herein by this reference.

6.5.15   BellSouth shall offer to TCG all AIN triggers which are supported by BellSouth for offering AIN-based services in accordance with the technical specifications set forth in the applicable industry standard technical references. Triggers that are currently available include:

6.5.15.1   Off-Hook Immediate,

6.5.15.2   Off-Hook Delay,

6.5.15.3   Termination Attempt,

6.5.15.4   3/6/10 Public Office Dialing Plan,

6.5.15.5   Feature Code Dialing,

6.5.15.6   Customer Dialing Plan.

6.5.16   When additional triggers are supported by BellSouth, BellSouth will make these triggers available to TCG:

6.5.16.1   Private EAMF Trunk,

6.5.16.2   Shared Interoffice Trunk (EAMF, SS7),

6.5.16.3   N11,

6.5.16.4   Automatic Route Selection.

6.5.17   If an TCG end user subscribes to TCG provided voice mail and messaging services, BellSouth shall redirect incoming calls to the TCG system based upon presubscribed service arrangements (e.g., busy, don't answer, number of rings) through dedicated trunks provided by TCG. In addition, BellSouth shall provide a Standard Message Desk Interface-Enhanced ("SMDI-E") interface to the TCG system. BellSouth shall support the Inter-switch Voice Messaging Service ("IVMS") capability.

6.6   Tandem Switching

6.6.1   Definition

6.6.1.1   The Tandem Switching Capability is defined as:

6.6.1.1.1   Trunk-connect facilities, which include, but are not limited to, the connection between trunk termination at a cross connect panel and switch trunk card;

6.6.1.1.2   The basic switch trunk function of connecting trunks to trunks; and

6.6.1.1.3   The functions that are centralized in tandem switches (as distinguished from separate end office switches), including but not limited, to call recording, the routing of calls to operator services, and signaling conversion features.

6.6.1.2   BellSouth shall perform routine testing and fault isolation on the underlying switch that is providing Tandem Switching and all its interconnections. When requested by TCG, the results and reports of the testing shall be made immediately available to TCG.

6.6.1.3   BellSouth shall maintain TCG's trunks and interconnections associated with Tandem Switching at least at parity to its own trunks and interconnections.

6.6.1.4   BellSouth shall control congestion points and network abnormalities. Congestion control provided or imposed on TCG traffic shall be at parity with controls being provided or imposed on BellSouth traffic (e.g., BellSouth shall not block TCG traffic and leave its traffic unaffected or less affected).

6.6.1.5   Tandem Switching shall process originating toll-free traffic received from an TCG local switch.

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

6.6.1.7   The Local Switching and Tandem Switching functions may be combined in an office. If this is done, both Local Switching and Tandem switching shall provide all of the functionality required of each of those Network Elements in this Agreement.

6.7   Interface Requirements

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

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

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

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

7   Operator Call Processing, Inward Operator Services and Directory Assistance Services

7.1   All of the negotiated rates, terms and conditions set forth in this Section pertain to the provision of Operator Call Processing, Inward Operator Services and Directory Assistance Services.

7.1.1   Operator Systems

7.1.1.1   Definition. Operator Systems is the Network Element that provides operator and automated call handling and billing, special services, end user telephone listings and optional call completion services. The Operator Systems, Network Element provides two types of functions: Operator Service functions and Directory Assistance Service functions, each of which are described in detail below.

7.2   Operator Service

7.2.1   Definition. Operator Service provides: (1) operator handling for call completion (for example, collect, third number billing, and manual calling-card calls), (2) operator or automated assistance for billing after the end user has dialed the called number (for example, calling card calls); and (3) special services including but not limited to Busy Line Verification and Emergency Line Interrupt (ELI), Emergency Agency Call, Operator-assisted Directory Assistance, and Rate Quotes.

7.2.2   Requirements

7.2.2.1   When TCG requests BellSouth to provide Operator Services, the following requirements apply:

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

7.2.2.1.2   BellSouth shall complete 0+ and 0- intraLATA toll calls.

7.2.2.1.3   BellSouth shall process calls that are billed to TCG end user's calling card that can be validated by BellSouth.

7.2.2.1.4   BellSouth shall complete person-to-person calls.

7.2.2.1.5   BellSouth shall complete collect calls.

7.2.2.1.6   BellSouth shall provide the capability for callers to bill to a third party and complete such calls.

7.2.2.1.7   BellSouth shall complete station-to-station calls.

7.2.2.1.8   BellSouth shall process emergency calls.

7.2.2.1.9   BellSouth shall process Busy Line Verify and Emergency Line Interrupt requests.

7.2.2.1.10   BellSouth shall process emergency call trace, as it does for its own end users prior to the Effective Date. Call must originate from a 911 provider.

7.2.2.1.11   BellSouth shall process operator-assisted directory assistance calls.

7.2.2.1.12   BellSouth shall adhere to equal access requirements, providing TCG local end users the same IXC access as provided to BellSouth end users.

7.2.2.1.13   BellSouth shall exercise at least the same level of fraud control in providing Operator Service to TCG that BellSouth provides for its own operator service.

7.2.2.1.14   BellSouth shall perform Billed Number Screening when handling Collect, Person-to-Person, and Billed-to-Third-Party calls.

7.2.2.1.15   BellSouth shall direct customer account and other similar inquiries to the customer service center designated by TCG.

7.2.2.1.16   BellSouth shall provide a feed of customer call records in "EMI" format to TCG in accordance with TCG ODUF standards specified in Attachment 7.

7.2.2.2   Interface Requirements

7.2.2.2.1   With respect to Operator Services for calls that originate on local switching capability provided by or on behalf of TCG, the interface requirements shall conform to the then current established system interface specifications for the platform used to provide Operator Service and the interface shall conform to industry standards.

7.3   Directory Assistance Service

7.3.1   Definition. Directory Assistance Service provides local end user telephone number listings with the option to complete the call at the caller's direction separate and distinct from local switching.

7.3.2   Requirements

              Directory Assistance Service shall provide up to two listing requests per call. If available and if requested by TCG's end user, BellSouth shall provide caller-optional directory assistance call completion service at rates contained in this Attachment to one of the provided listings, equal to that which BellSouth provides its end users. If not available, TCG may request such requirement pursuant to the BFR/NBR Process as set forth in General Terms and Conditions.

7.3.3   Directory Assistance Service Updates

BellSouth shall update end user listings changes daily via the Directory Assistance Database **.** These changes include:

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

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

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

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

7.4   Branding for Operator Call Processing and Directory Assistance

7.4.1   The BellSouth Operator Systems Branding Feature provides a definable announcement to TCG end users using Directory Assistance ("DA")/Operator Call Processing ("OCP") prior to placing such end users in queue or connecting them to an available operator or automated operator system. This feature allows TCG to have its calls custom branded with TCG's name on whose behalf BellSouth is providing Directory Assistance and/or Operator Call Processing. Rates for Custom Branding, Operator Call Process and Directory Assistance are set forth in this Attachment.

7.4.2   BellSouth offers three (3) service levels of branding to TCG when ordering BellSouth's Directory Assistance and/or Operator Call Processing.

7.4.2.1   Service Level 1 - BellSouth Branding

7.4.2.2   Service Level 2 - Unbranding

7.4.2.3   Service Level 3 - Custom Branding

7.4.3   Where TCG resells BellSouth's services or purchases unbundled local switching from BellSouth, BellSouth will provide Self Branding to TCG upon request, whereby, through Selective Carrier Routing, BellSouth will route TCG's end user calls to a directory assistance provider and/or operator services provider other than BellSouth. BellSouth offers Self Branding as described in Section 7.5.2.8 below.

7.4.4   For Resellers and Use with an Unbundled Port

7.4.4.1   BellSouth Branding is the Default Service Level.

7.5   In order for BellSouth to provide Custom Branding or Unbranding for Operator Services and/or Directory Assistance ("OS/DA") where BellSouth is providing Unbundled Local Switching or Resale, any of three technologies may be elected by TCG; (1) Selective Carrier Routing using the BellSouth Advanced Intelligence Network ("AIN") platform; (2) Selective Carrier Routing using a Line Class Code ("LCC") platform; or (3) Via Originating Line Number Screening ("OLNS") Software. Custom Branding for Directory Assistance is not available for certain classes of service, such as: Hotel/Motel, WATS, cellular type 1, and certain PBX services. TCG may also elect to have BellSouth provision Alternative Operator Services Routing ("AOSR") to TCG using AIN or LCC technologies. Currently OLNS Software is only an option for unbranded and custom branding and is only available in Georgia. BellSouth will make Custom Branding and Unbranding via OLNS Software available to TCG as it is rolled out in the remaining BellSouth region.

7.5.1   Selective Carrier Routing Using The Advance Intelligence Network ("AIN") Platform

7.5.1.1   BellSouth will provide AIN customized carrier routing at the request of TCG as set forth in Section 6.4.

7.5.2   Selective Carrier Routing Using Line Class Codes

7.5.2.1   Selective Call Routing Using Lines Class Codes (SCR-LCC): LCCs and the trunking arrangements required to implement SCR-LCC shall be ordered through the BellSouth Account Team. BellSouth shall provide TCG with all of the appropriate ordering forms and written methods and procedures required to identify to BellSouth the entirety of TCG's request.

7.5.2.2   For each request for SCR-LCC, TCG shall provide the following information, using the forms identified by BellSouth:

7.5.2.2.1 TCG shall identify the BellSouth end offices where it would like to offer end user service;

7.5.2.2.2   NPA where such customized routing shall be employed, describe each set of end user call blocking restrictions;

7.5.2.2.3   TCG shall indicate if the requested LCC will be used to serve the basic dialing arrangement (or calling area) or an optional dialing arrangement, whether the LCC will be used to support flat or measure rated services (e.g. BellSouth retail services may be flat or measure rated. If TCG intends to Resale flat and measure rated BellSouth services and use selective routing to provide specific OS/DA services, it needs to request two LCCs to support both services. Unbundled Ports are measured services and the same LCC used to support measured Resale services may be used to supports selective call routing wit Unbundled Ports.), multi-line hunting and each class of service to be offered by TCG;

7.5.2.2.4   TCG shall provide a forecast of call volumes per NPA for each end office.

7.5.2.3   If a BellSouth end office serves multiple rate centers and TCG intends to provide SCR-LCC for OS/DA branding to its end users in these multiple areas, unique LCCs must be established for each rate center. BellSouth shall verify the Line Class Code capacity for the end offices identified by TCG. Within two weeks of receiving the request from TCG, BellSouth shall notify TCG in writing whether the Line Class Code and Selective Carrier Routing request can be satisfied.

7.5.2.4   BellSouth shall program the LCCs to meet TCG's requested branding default or routing option in the end offices identified by TCG. At the same time, BellSouth shall update all databases, including any look-up tables, necessary to accept and process TCG-submitted LSRs to support its branding default or routing option as described in Section 7.5.3 of this Attachment.

7.5.2.5   The rates for Line Class Codes are set forth in Exhibit A of this Attachment. These charges include non-recurring charges to build and program each Line Class Codes in each end office.

7.5.2.6   TCG-branded BellSouth OS/DA

7.5.2.6.1   Where BellSouth is providing Unbundled Local Switching or Resale to TCG, and where BellSouth is providing TCG-branded OS/DA through selective carrier routing using Line Class Code technology, TCG's end user traffic is routed to a dedicated trunk group uniquely identified by LCC instructions.

7.5.2.6.2   If Line Class Code capacity exists within the end offices identified by the TCG, and TCG has requested TCG-branded OS/DA, TCG will order the required dedicated trunks from the desired BellSouth end office to the BellSouth TOPS Tandem. Separate trunk groups are required for Operator Services and for Directory Assistance. TCG shall prepare and submit the appropriate forms to BellSouth, which shall review such documents and request any further information that may be necessary. TCG shall verify and provide any information requested by BellSouth. After the determination made in 7.5.2.3 above, BellSouth will submit the appropriate documents to its internal organizations.

7.5.2.6.3   The intervals from the determination made in 7.5.2.3 above will be negotiated between the BellSouth Account Team and TCG to establish the appropriate intervals based on the number of line class codes and end offices requested. The interval to provide dedicated trunking is approximately 45 calendar days for all trunks per end office where facilities are available. If LCCs have been requested for more than one end office in a single order, TCG may request the order in which BellSouth shall implement the end offices. BellSouth may assign a Project Manager to ensure timely and accurate implementation.

7.5.2.7   Unbranded OS/DA

7.5.2.7.1   Where BellSouth is providing Unbundled Local Switching or Resale to TCG, and where BellSouth is providing unbranded OS/DA through selective carrier routing using LCC technology, TCG's end user traffic is routed to a trunk group(s) installed by BellSouth.

7.5.2.7.2   If LCC capacity exists within the end offices identified by TCG, BellSouth shall order the trunk groups necessary to carry the unbranded Operator Services traffic to each TOPs tandem. The interval for the installation of the trunk groups and associated LCCs shall be approximately 45 calendar days from the determination made in 7.5.2.3 above, for each TOPS tandem. The number of trunk required shall be based upon the forecast of traffic volume received from TCG and may affect the provisioning interval. A separate trunk group is required for Operator Assistance and for Directory Assistance. TCG shall prepare and submit the appropriate forms to BellSouth, which shall review such documents and request any further information that may be necessary. TCG shall provide and verify any information requested by BellSouth. After the determination made in 7.5.2.3 above, BellSouth will submit the forms to its internal organizations.

7.5.2.7.3   The intervals from the determination made in 7.5.2.3 above shall be negotiated between the BellSouth Account Team and TCG based on the number of line class codes and end offices requested. The interval for the installation of the trunks will be approximately 45 days for all trunks per end office where facilities are available. If LCCs have been requested for more than one end office in a single order, TCG may request the order in which BellSouth shall implement the end offices. BellSouth may assign a Project Manager to ensure timely and accurate implementation.

7.5.2.8   Routing to an Alternative Operator Services Provider

7.5.2.8.1   Where BellSouth is providing the Unbundled Local Switching or Resale to TCG, and where TCG is utilizing an Alternative Operator Services Provider through selective carrier routing using LCC technology, TCG's end user traffic will be routed to a dedicated trunk group, which shall be provisioned in accordance with BellSouth's and the Alternate Operator Service Provider's requirements, from the desired BellSouth End Offices to the Alternative Operator Services Point of Interface.

7.5.2.8.2   If Line Class Code capacity exists within the end offices identified by TCG, and TCG has requested an Alternate Operator Services Provider, TCG end user traffic will be routed to a dedicated trunk group, which shall be provisioned in accordance with BellSouth's and the Alternative Operator Services Provider's requirements, from the desired BellSouth end offices to the Alternative Operator Services Provider Point of Interface. TCG shall prepare and submit the appropriate forms to BellSouth, which shall review such documents and request any further information that may be necessary. TCG shall verify and provide any information requested by BellSouth. After the determination made in 7.5.2.3 above, BellSouth will submit the appropriate forms to its internal organizations.

7.5.2.8.3   The intervals from the determination made in 7.5.2.3 shall be negotiated between the BellSouth Account Team and TCG based on the number of line class codes and end offices requested. If LCCs have been requested for more than one end office in a single order, TCG may request the order in which BellSouth shall implement the end offices. BellSouth may assign a Project Manager to ensure timely and accurate implementation.

7.5.2.8.4   Where TCG is using an Alternative Operator Services Provider, TCG, may at its option, order dedicated trunks between its Alternative Operator Services Provider's Point of Interface and the BellSouth

Operator Services Platform. If TCG elects to install said dedicated trunks, TCG's Operators may provide verify busy line or line interruption services on numbers located in the BellSouth Switch at the rates set forth in Exhibit A.

7.5.3   Procedures for Selective Carrier Routing Customer-Specific Electronic LSR Ordering

7.5.3.1   All TCG OS/DA calls originated from a customer in an end office where BellSouth is providing the local switching to TCG and where TCG has requested only a single customized OS/DA routing option or branding default, shall be routed to that option by BellSouth following the submission of TCG's LSR without the need for TCG to provide any indication of the routing on the LSR.   If TCG has requested multiple customized OS/DA Routing options in an end office and the appropriate LCCs have been established, TCG may order for an end user an OS/DA branding option other than the established default plan by providing an indicator identifying the specific routing to be used (Unbranded, Custom Branded, Self Branded). This indicator shall be a five character Selective Routing Code ("SRC") provided by BellSouth to TCG and it shall be listed behind the ZSRC fid in the feature detail section of the LSR when ordering. The indicator used for each option may be the same for all end offices in a state (minimally) or for all offices in BellSouth's region (optionally).

7.6   Custom Branding AND Unbranding via Originating Line Number Screening (OLNS) Software

           In addition to the branding methods described in this Section, Unbranding and Custom Branding are also available for Directory Assistance, Operator Call Processing or both via Originating Line Number Screening (OLNS) software. When utilizing this method of Unbranding or Custom Branding, TCG shall not be required to purchase dedicated trunking.

7.6.1   For BellSouth to provide Unbranding or Custom Branding via OLNS software for Operator Call Processing or for Directory Assistance, BellSouth must load all CLECs' OCN(s) and telephone numbers associated with such OCN(s) in BellSouth's LIDB; provided, however, that if TCG desires to offer Alternatively Billed Services (collect, third number billed and calling card calls) to its end users, TCG must execute a BellSouth LIDB Storage Agreement. To implement Unbranding and Custom Branding via OLNS software, TCG must submit a manual order form which requires, among other things, TCG's

Operating Company Number (OCN) and a forecast for the traffic volume anticipated for each BellSouth TOPS during the peak busy hour. TCG shall provide updates to such forecast on a quarterly basis and at any time such forecasted traffic volumes are expected to change significantly. Upon TCG's purchase of Unbranding or Custom Branding using OLNS software for any particular TOPS, all TCG end users served by that TOPS will receive the Unbranded "no announcement" or the Custom Branded announcement. Orders for Unbranding or Custom Branding via OLNS software shall be completed in approximately 60 days.

7.6.2   Rates for Unbranding and Custom Branding via OLNS software for Directory Assistance and for Operator Call Processing are as set forth in this Attachment. Notwithstanding anything to the contrary in this Agreement, to the extent BellSouth is unable to bill TCG applicable charges currently, BellSouth shall track such charges and will bill the same retroactively at such time as a billing process is implemented. In addition to the charges for Unbranding and Custom Branding via OLNS software, TCG shall continue to pay BellSouth applicable labor and other charges for the use of BellSouth's Directory Assistance and Operator Call Processing platforms as set forth in this Attachment. Further, where TCG is purchasing unbundled local switching from BellSouth, UNE usage charges for end office switching, tandem switching and transport, as applicable, shall continue to apply.

7.7   For Facilities Based Carriers

7.7.1   All Service Levels and branding by OLNS software require TCG to order dedicated trunking from their end office(s) point of interface to the BellSouth TOPS Switches. Rates for trunks are set forth in applicable BellSouth tariffs.

7.7.2   Customized Branding includes charges for the recording of the branding announcement and the loading of the audio units in each TOPS Switch and Network Applications Vehicle (NAV) equipment for which TCG requires service.

7.7.3   Directory Assistance customized branding uses:

7.7.3.1   the recording of TCG;

7.7.3.2   the front-end loading of the Digital Recorded Announcement Machine (DRAM) in each TOPS switch.

7.7.4   Operator Call Processing customized branding uses:

7.7.4.1   the recording of TCG;

7.7.4.2   the front-end loading of the DRAM in the TOPS Switch;

7.7.4.3   the 0- automation loading for the audio units in the Enhanced Billing and Access Service (EBAS) in the Network Applications Vehicle (NAV).

8   Interoffice Transmission Facilities

8.1   BellSouth shall:

8.1.1   Provide TCG, upon request, exclusive use of interoffice transmission facilities dedicated to a particular end user or carrier, or use the features, functions, and capabilities of interoffice transmission facilities shared by more than one customer or carrier;

8.1.2   Provide all technically feasible transmission facilities, features, functions, and capabilities that TCG, upon request, could use to provide telecommunications services; and

8.1.3   Permit, to the extent technically feasible, TCG, upon request, to connect such interoffice facilities to equipment designated by TCG, including but not limited to, TCG's collocated facilities.

8.2   Shared Transport

8.2.1   Definition

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

8.2.2   Technical Requirements

8.2.2.1   Shared Transport provided on DS1 or VT1.5 circuits, shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for central office to central office connections in accordance with the applicable industry standard technical references.

8.2.2.2   Shared Transport provided on DS3 circuits, STS-1 circuits, and higher transmission bit rate circuits shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for central office to central office connections in accordance with the applicable industry standard technical references.

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

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

8.3   Dedicated Transport

8.3.1   Definition: Dedicated Transport is BellSouth transmission facilities, including all technically feasible capacity-related services including, but not limited to, DS1, DS3 and OCn levels, dedicated to a particular customer or carrier, that provides telecommunications between wire centers owned by BellSouth or requesting telecommunications carriers, or between switches owned by BellSouth or requesting telecommunications carriers.

8.3.2   BellSouth shall offer, at the rates set forth in Exhibit A, Dedicated Transport in each of the following manners:

8.3.2.1   As capacity on a shared facility.

8.3.2.2   As a circuit (e.g., DS1, DS3, OC-n, STS-1) dedicated to TCG; and,

8.3.2.3   As dedicated transport on an existing SONET ring. Such dedicated transport shall include all the features, functions, and capabilities of that existing SONET ring, to the extent technically feasible.

8.3.2.4   Nothing in this Section shall be construed to require BellSouth to construct transport facilities where such a system does not presently exist, but BellSouth shall provide the electronics necessary to provide such dedicated transport to TCG on existing facilities.

8.3.3   When Dedicated Transport is provided as a circuit or as capacity on a shared facility, it shall include, at Parity and on a nondiscriminatory basis, (as appropriate):

8.3.3.1   Multiplexing functionality;

8.3.3.2   Grooming functionality; and,

8.3.3.3   Where available, redundant equipment and facilities necessary to support protection and restoration.

8.3.4   When Dedicated Transport is provided as a system, it shall include, at Parity and on a nondiscriminatory basis:

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

8.3.4.2   Inter-office transmission facilities such as optical fiber, Dark Fiber, copper twisted pair, and coaxial cable;

8.3.4.3   Where available, redundant equipment and facilities necessary to support protection and restoration; and,

8.3.4.4   Dedicated Transport includes the Digital Cross-Connect System (DCS) functionality as an option.

8.3.5   Technical Requirements - Dedicated Transport

8.3.5.1   When BellSouth provides Dedicated Transport as a circuit or a system, the entire designated transmission circuit or system (e.g., DS1, DS3, STS-1) shall be dedicated to TCG designated traffic.

8.3.5.2   When requested by TCG, Dedicated Transport shall provide physical diversity. Physical diversity means that two circuits are provisioned in such a way that, where available, no single failure of facilities or equipment will cause a failure on both circuits.

8.3.5.3   When physical diversity is requested by TCG, BellSouth shall provide the maximum feasible physical separation between transmission paths for all facilities and equipment (unless otherwise agreed by TCG).

8.3.5.4   Transmission rates shall be as specified by TCG.

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

8.3.5.5.1 DS1 (Extended SuperFrame - ESF/B8ZS, D4, and unframed applications shall be provided);

8.3.5.5.2 DS3 (C-bit Parity and unframed applications shall be provided);

8.3.5.5.3 Where dedicated transport is provided over SONET, BellSouth shall provide it at Parity.

8.5.6   If requested by TCG, BellSouth shall provide cross-office wiring up to a suitable Point of Termination (POT) between Dedicated Transport and TCG's designated equipment. BellSouth shall provide the following equipment for the physical POT:

8.3.5.6.1   DSX1 for DS1s or VT1.5s;

8.3.5.6.2   DSX3 for DS3s or STS-1s; and

8.3.5.6.3   LGX for optical signals (e.g., OC-3 and OC-12).

8.3.5.7   For Dedicated Transport provided by BellSouth, Bellsouth shall design the system (including but not limited to facility routing and termination points) as specified by TCG.

8.3.5.8   Where technically feasible and where available, BellSouth shall provide electronic provisioning control for dedicated transport.

8.3.5.9   Where technically feasible and where available, BellSouth shall provide electronic provisioning control for dedicated transport.

8.3.5.10   BellSouth shall offer Dedicated Transport together with and separately from DCS.

8.3.6   Technical Requirements - Dedicated Transport Using SONET Technology.

8.3.6.1   BellSouth shall provide SONET standard interfaces in accordance with the applicable industry standards.

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

8.3.7   **Local Channel**

8.3.7.1   The Local Channel is the dedicated transmission path between TCG's point of presence and the BSWC.

8.3.7.2   Local Channels may be used for either switched or non-switched traffic. Rates for Local Channels are contained in Exhibit A of this Attachment 2.

8.3.7.3   Technical Requirements.

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

8.3.7.3.2   When BellSouth provides Dedicated Transport as a circuit or a system, the entire designated transmission circuit or system (e.g., DS1, DS3, STS-1) shall be dedicated to TCG designated traffic.

8.3.7.3.3   BellSouth shall offer Dedicated Transport in all documented bandwidth interfaces used within BellSouth's network, including, but not limited to, DS1 and DS3 and OCn.

8.3.7.3.4   For DS1 or VT1.5 circuits, Dedicated Transport shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for end user interface to central office connections in the technical reference set forth in the applicable industry standard technical reference.

8.3.7.3.5   For DS3 circuits, STS-1 circuits, and higher rate circuits, Dedicated Transport shall, at a minimum, meet the performance, availability, jitter, and delay requirements specified for end user interface to central office connections in the technical reference set forth in the applicable industry standard technical reference.

8.3.7.3.6   When requested by TCG, Dedicated Transport shall provide physical diversity. Physical diversity means that two circuits are provisioned in such a way that no single failure of facilities or equipment will cause a failure on both circuits.

8.3.7.3.7   When physical diversity is requested by TCG, BellSouth shall provide the maximum feasible physical separation between intra-office and inter-office transmission paths (unless otherwise agreed by TCG). BellSouth shall take appropriate steps to assure physical diversity continues to be provided for the duration of the period that TCG employs or until such time that TCG notifies BellSouth that physical diversity is no longer required.

8.3.7.3.8   Upon TCG's request, BellSouth shall provide nondiscriminatory performance monitoring and alarming.

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

8.3.7.3.9.1 When Dedicated Transport is provided as a system, BellSouth shall design the system according to BellSouth's network infrastructure to allow for the termination points specified by TCG.

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

8.4   DARK FIBER

8.4.1   Definition

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

8.4.2   Requirements

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

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

8.4.2.3   TCG may test the quality of the Dark Fiber to confirm its usability and performance specifications.

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

8.4.2.5   BellSouth shall use its best efforts to make Dark Fiber available to TCG within thirty (30) business days after it receives written confirmation from TCG that the Dark Fiber previously deemed available by BellSouth is wanted for use by TCG. This includes

identification of appropriate connection points (e.g., Light Guide Interconnection ("LGX") or splice points) to enable TCG to connect or splice TCG provided transmission media (e.g., optical fiber) or equipment to the Dark Fiber.

8.4.2.6   Dark fiber shall meet the manufacturers' design specifications.

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

9   Signaling Networks and Call-Related Databases

9.1   BellSouth shall provide TCG access to signaling networks, call-related databases, and service management systems on an unbundled basis for the provision of a telecommunications service.

9.2   Signaling Networks

9.2.1   Signaling networks include, but are not limited to, signaling links and signaling transfer points. When TCG purchases unbundled switching capability from BellSouth, BellSouth shall provide access to its signaling network from that switch in the same manner in which it obtains access itself. BellSouth shall provide TCG with its own switching facilities access to BellSouth's signaling network for each of the TCG switches. This connection shall be made in the same manner as BellSouth connects one of its own switches to a signaling transfer point.

9.2.2   Signaling Link Transport is a set of two or four dedicated 56 Kbps. transmission paths between TCG-designated Signaling Points of Interconnection ("SPOI") and BellSouth Point of Interconnection that provides appropriate physical diversity.

9.2.3   The network termination point where this interconnection takes place is called the STP port termination.

9.2.4   Technical Requirements

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

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

9.2.4.2.1   As an "A-link" which is a connection between a switch or SCP and a home Signaling Transfer Point Switch ("STPS") pair and consists of two links; and

9.2.4.2.2   As a "D/B-link" which is a connection between two STPS pairs in different company networks (e.g., between two STPS pairs for two Competitive Local Exchange Carriers ("CLECs")) and consists of four links.

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

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

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

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

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

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

9.2.4.5   The Signaling Point of Interconnection (SPOI) for each link shall be located at a cross-connect element, such as a DSX-1, in the central office where BellSouth STPS is located. There shall be a DS1 or higher rate transport interface at each of the SPOIs. Each signaling link shall appear as a DS0 channel within the DS1 or higher rate interface. BellSouth shall offer higher rate DS1 signaling for interconnecting TCG local switching systems or STPSs with BellSouth STPSs as soon as these become approved ANSI standards and available capabilities of BellSouth STPSs. BellSouth and TCG will work jointly to establish mutually acceptable SPOIs.

9.2.5   **Signaling Transfer Points**

9.2.5.1   Definition

9.2.5.1.1   Signaling Transfer Points is a signaling network function that includes all of the capabilities provided by the STPSs and their associated signaling links which enable the exchange of SS7 messages among and between switching elements, database elements and STPS.

9.2.5.2   Technical Requirements

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

9.2.5.2.1.1   BellSouth Service Control Points/DataBases and

9.2.5.2.1.2   Third-party-provided STPSs.

9.2.5.2.2   The connectivity provided by STPs shall fully support the functions of all Network Elements and TCG or other third-party switching systems and STPs connected to BellSouth's SS7 network. This explicitly includes the use of BellSouth's SS7 network to convey messages which neither originate nor terminate at a signaling end point directly connected to BellSouth's SS7 network (i.e., transient messages). When BellSouth SS7 network is used to convey transient messages, there shall be no alteration of the Integrated Services Digital Network User Part ("ISDNUP") or Transaction Capabilities Application Part ("TCAP") user data that constitutes the content of the message.

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

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

9.2.5.2.5   STPs shall provide on a non-discriminatory basis all functions of the Operations, Maintenance and Administration Part ("OMAP") commonly provided by STPSs. All OMAP functions will be on a "where available" basis and can include:

9.2.5.2.5.1   MTP Routing Verification Test ("MRVT") and

9.2.5.2.5.2   SCCP Routing Verification Test ("SRVT").

9.2.5.2.6   In cases where the destination signaling point is a BellSouth local or tandem switching system or database, or is an TCG or third party local or tandem switching system directly connected to the BellSouth SS7 network, STPs shall perform MRVT and SRVT to the destination signaling point. In all other cases, STPs shall perform MRVT and

SRVT to a gateway pair of STPSs in an SS7 network connected with the BellSouth SS7 network. This requirement shall be superseded by the specifications for Internetwork MRVT and SRVT if and when these become approved ANSI standards and available capabilities of BellSouth STPSs, and if mutually agreed upon by TCG and BellSouth.

9.2.5.2.7   BellSouth STPs shall route mutually agreeable AIN responses from the TCG SCP via SS7 network interconnect to the local switch designated in the Signaling Connection Control Part ("SCCP") called party address.

9.2.5.2.8   STPs shall be equal to or better than the technical specifications set forth in the applicable industry standard technical references.

9.2.5.3   Message Screening

9.2.5.3.1   BellSouth shall set message screening parameters so as to accept messages from TCG local or tandem switching systems destined to any signaling point in the BellSouth SS7 network or any network interconnected to the BellSouth SS7 network with which the TCG switching system has a legitimate signaling relationship.

9.2.5.3.2   BellSouth shall set message screening parameters so as to accept messages destined to/from an TCG local or tandem switching system or to/from an TCG Service Control Point from any signaling point or network interconnected to the BellSouth SS7 network with which the TCG switching system has a legitimate signaling relationship.

9.3   SS7 Advanced Intelligent Network ("AIN") Access

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

9.3.2   SS7 AIN Access is the provisioning of AIN triggers in a BellSouth local switch and interconnection of the BellSouth SS7 network with the TCG SS7 network to exchange TCAP queries and responses with an TCG SCP.

9.4   Call-Related DataBases

9.4.1   Definition

9.4.1.1   Call-related databases are defined as databases, other than operations support systems, that are used in signaling networks for billing and collection, or the transmission, routing, or other provision of a telecommunications service. For purposes of switch query and database response through a signaling network, BellSouth shall provide access to its call-related databases, including but not limited to, the Calling Name Database, 911 Database, E911 Database, Line Information Database, Toll Free Calling Database, Advanced Intelligent Network Databases, and downstream number portability databases by means of physical access at the signaling transfer point linked to the unbundled databases. BellSouth shall not be required to unbundle the services created in the AIN platform and architecture that qualify for proprietary treatment. BellSouth shall allow TCG when TCG has purchased BellSouth's local switching capability to use BellSouth's service control point element in the same manner, and via the same signaling links, as BellSouth itself. BellSouth shall allow TCG when it has deployed its own switch, and has linked that switch to BellSouth's signaling system, to gain access to BellSouth's service control point in a manner that allows TCG to provide any call-related database-supported services to customers served by TCG's switch. BellSouth shall provide TCG, upon request, with access to call-related databases in a manner that complies with section 222 of the Act.

9.4.2   A Service Control Point ("SCP") is a specific type of Database functionality deployed in a Signaling System 7 ("SS7") network that executes service application logic in response to SS7 queries sent to it by a switching system also connected to the SS7 network.

9.4.3   Technical Requirements

9.4.3.1   Requirements for call-related databases within this section address storage of information, access to information (e.g., signaling protocols, response times), and administration of information (e.g., provisioning, administration, and maintenance). All call-related databases shall be provided in accordance with the following requirements:

9.4.3.1.1   BellSouth shall provide physical access to SCPs through the SS7 network and protocols, as specified in this Attachment 2, with TCAP as the application layer protocol.

9.4.3.1.2   BellSouth shall provide physical interconnection to databases via industry standard interfaces and protocols.

9.4.3.2   The reliability of interconnection options shall be consistent with requirements for diversity and survivability.

9.4.4   Database Availability

9.4.4.1   Call-related databases shall have a maximum unscheduled unavailability of 30 minutes per year. Unavailability due to software and hardware upgrades shall be scheduled during minimal usage periods and only be undertaken upon proper notification to providers which might be impacted. Any downtime associated with the provision of call-related databases will impact all service providers, including BellSouth, equally.

9.4.4.2   Any TCG order for data to be added, modified or deleted from the databases shall be consistent with the ordering and provisioning requirements of this Agreement.

9.4.4.3   BellSouth shall make available call-related database functionality and complete database transactions (e.g., add, modify or delete) for TCG customer records stored in BellSouth's databases on a basis that is equivalent to that which it provides to itself or third-party requesting telecommunications carriers.

9.4.5   Line Information Database ("LIDB")

9.4.5.1   TCG acknowledges that BellSouth will store in its LIDB only records relating to service in the BellSouth region.

9.4.5.2   Definition.

9.4.5.2.1   The LIDB is a transaction-oriented database accessible through Common Channel Signaling ("CCS") networks. It contains records associated with customer Line Numbers and Special Billing Numbers relating to service in the BellSouth region.

9.4.5.2.2   The LIDB Storage Agreement, which contains the terms and conditions for TCG's access to LIDB, is attached as Exhibit A to Attachment 6, incorporated herein by this reference.

9.4.6   Toll Free Number Database

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

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

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

9.4.6.2   Interface Requirements

9.4.6.2.1   The signaling interface between the TCG or other local switch and the Toll-Free Number database shall use the TCAP protocol and in the signaling network interface as specified in the applicable industry standard technical references.

9.4.7   Automatic Location Identification/Data Management System ("ALI/DMS")

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

9.4.7.2   Technical Requirements

9.4.7.2.1   BellSouth shall provide an electronic interface to the ALI/DMS database, through which TCG or its agent may provide a daily update of TCG Customer Information. BellSouth shall provide TCG with record input format, consistent with the requirements imposed on BellSouth by the governmental body administering 911 services. BellSouth shall provide error reports from the ALI/DMS data base to TCG as soon as possible, but in any event, within 24 hours after TCG or its agents enters information into the ALI/DMS data base. The error reports may be provided electronically if TCG purchases the capability. If an electronic interface is not available as an offering or because of a system outage for TCG or its agents to provide daily updates to the ALI/DMS database or for BellSouth to provide error reports from the ALI/DMS database, BellSouth shall establish a process or procedure to receive, send and process within one business day TCG Customer Information. The error files will contain the TCG reference date and file number of the original record sent.

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

9.4.7.2.2.1   Name;

9.4.7.2.2.2   Address;

9.4.7.2.2.3   Telephone number; and

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

9.4.7.2.3   When the BellSouth is responsible for administering the ALI/DMS database in its entirety, ported number NXXs entries for the ported numbers should be maintained unless TCG requests otherwise and shall be updated if TCG requests, provided TCG supplies BellSouth with the updates.

9.4.7.2.4   When Remote Call Forwarding ("RCF") is used to provide number portability to the local end user and a remark or other appropriate field information is available in the database, the shadow or "forwarded-to" number and an indication that the number is ported shall be added to the end user record.

9.4.7.2.5   If BellSouth is responsible for configuring PSAP features (for cases when the PSAP or BellSouth supports an ISDN interface) it shall ensure that CLASS Automatic Recall (Call Return) is not used to call back to the ported number. Although BellSouth currently does not have ISDN interface, BellSouth agrees to comply with this requirement once ISDN interfaces are in place.

9.4.7.2.6   At either Party's option, however not to exceed annually unless otherwise agreed to by the Parties, the databases of both Parties shall be compared for accuracy and uniformity. If any discrepancies are found as a result of the comparison, the Parties shall work cooperatively to correct the discrepancies within a reasonable time. The cost of the implementation of the request made other than annually shall be borne by the Party making the request.

9.4.7.3   Interface Requirements

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

9.4.8   Calling Name Delivery Database Service

9.4.8.1   Calling Name Delivery Database Service ("CNAM") provides TCG the ability to associate a name with the calling party number, allowing the end user subscriber (to which a call is being terminated) to view the calling party's name before the call is answered. This service also

provides TCG the opportunity to load and store its subscriber name in the BellSouth CNAM SCPs.

9.4.8.2 The CNAM Database Service Agreement is included as Exhibit B to this Attachment 2 and incorporated herein by this reference.

10   Directory Assistance Database Service ("DADS")

10.1 Directory Assistance ("DA") database contains all customer data in the database used by BellSouth to provide its own DA service and where BellSouth is authorized to include the customer data of a telecommunications carrier in the database available to TCG. BellSouth shall provide access to the DA database in one of two manners.

10.2 BellSouth shall make its Directory Assistance Database Service ("DADS") available solely for the expressed purpose of providing Directory Assistance type services to TCG end users. Directory Assistance type service is defined as a service that allows TCG end users to obtain the name, telephone numbers and addresses of other subscribers of telecommunications services. TCG agrees that Directory Assistance Database Service ("DADS") will not be used for any purpose which violates federal or state laws, statutes, regulatory orders or tariffs. Except for the permitted use, TCG shall not disclose DADS and shall provide due care in providing for the security and confidentiality of DADS. Further, TCG authorizes the inclusion of TCG's Directory Assistance listings in the BellSouth Directory Assistance products.

10.3 BellSouth shall provide TCG initially with a base file of subscriber listings which reflect all listing change activity occurring since TCG's most recent update via magnetic tape, and subsequently using electronic connectivity such as Network Data Mover to be developed mutually by TCG and BellSouth. TCG agrees to assume the costs associated with CONNECT: Direct^{TM} connectivity, which will vary depending upon volume and mileage.

10.4 BellSouth will require approximately one month after receiving an order to prepare the base file. BellSouth will provide daily updates to TCG which will reflect listing change activity occurring since TCG's most recent update. BellSouth shall provide updates to TCG on a business, residence, or combined business and residence basis. TCG agrees that the updates shall be used solely to keep the information current. Delivery of daily updates will commence the day after TCG receives the base file.

10.5   BellSouth is authorized to include TCG Directory Assistance listing information in its Directory Assistance Database Service. Any other use by BellSouth of TCG Directory Assistance listing information is not authorized and with the exception of a request for DADS, BellSouth shall refer any request for such information to TCG.

10.6   BellSouth shall provide to TCG, upon request, via DADs, the names and addresses for BellSouth.

10.7   TCG and other telecommunication carriers' subscribers that have unlisted and non-published directory listings. The date files shall contain a special indicator showing that the subscribers account is indicator showing that the subscribers' account is either unlisted or unpublished.

10.8   Rates for DADS are as set forth in Exhibit A of this Attachment 2.

10.9   Direct Access to Directory Assistance Service ("DADAS") will provide TCG's directory assistance operators with the ability to search all available BellSouth subscriber listings using the Directory Assistance search format. Subscription to DADAS will allow TCG to utilize its own switch, operator workstations and optional audio subsystems.

10.10   BellSouth will provide DADAS from its DA location. TCG will access the DADAS system via BellSouth provided point of availability. TCG has the responsibility of providing the physical links required to connect to the point of availability. These facilities may be purchased from BellSouth as rates and charges billed separately from the charges associated with this offering.

10.11   A specified interface to each TCG subsystem will be provided by BellSouth. Interconnection between TCG's system and a specified BellSouth location will be pursuant to the use of TCG-owned or TCG-leased facilities and shall be appropriate sized based upon the volume of queries being generated by TCG.

10.12   The specifications for the three interfaces necessary for interconnection are available in the following documents:

10.12.1   DADAS to Subscriber Operator Position System – Northern Telecom Document CSI-2300-07; Universal Gateway/Position Message Interface Format Specification;

10.12.2   DADAS to Subscriber Switch – Northern Telecom Document Q210-1 Version A107; NTDMS/CCIDAS System Application Protocol; and TCG Document 250-900-535 Operator Services Position System

Listing Service and Application Call Processing Data Link Interface Specification;

10.12.3   DADAS to Audio Subsystem (Optional) – Directory One Call Control to Audio Response Unit system interface specifications are available through Northern Telecom as a licensed access protocol – Northern Telecom Document 355-004424 and Gateway/Interactive Voice subsystem Protocol Specification.

10.12.4   Rates for DADAS are as set forth in Exhibit A of this Attachment 2.

11   Service Management System

11.1   Definition

11.1.1   A Service Management System is defined as a computer database or system not part of the public switched network that, among other things: (1) interconnects to the service control point and sends to that service control point the information and call processing instructions needed for a network switch to process and complete a telephone call; and (2) provides telecommunications carriers with the capability of entering and storing data regarding the processing and completing of a telephone call. BellSouth shall provide TCG, upon request, with access to a Service Management System in a manner that complies with Section 222 of the Act.

11.2   BellSouth shall provide TCG with the information necessary to enter correctly, or format for entry, the information relevant for input into BellSouth's service management system.

11.3   BellSouth shall provide TCG the same access to design, create, test, and deploy Advanced Intelligent Network-based services at the service management system, through a service creation environment, that BellSouth provides itself.

11.4   BellSouth shall provide access to any and all BellSouth non-proprietary service applications resident in BellSouth's SCP. Such access may be from TCG's switch or BellSouth's unbundled Local Switching element.

11.5   Service Management Systems provide operational interfaces to allow for provisioning, administration and maintenance of subscriber data and service application data stored in SCPs.

11.6   BellSouth's Service Creation Environment ("SCE") and Service Management System ("SMS") Advanced Intelligent Network ("AIN")

Access shall provide TCG the capability that will allow TCG to create service applications in a BellSouth Service Creation Environment and deploy those applications in a BellSouth SMS to a BellSouth SCP. TCG's service applications interact with AIN triggers provisioned on a BellSouth SSP. BellSouth shall provide TCG access to the BellSouth Service Creation Environment in a manner equal to what BellSouth provides itself or requesting telecommunications carriers.

11.7 BellSouth's SCE/SMS AIN Access shall provide access to SCE hardware, software, testing and technical support (e.g., help desk, system administrator) resources available to TCG. Scheduling procedures shall provide TCG equivalent priority to these resources.

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

11.9 When TCG selects SCE/SMS AIN Access, BellSouth shall provide training, documentation, and technical support to enable TCG to use BellSouth's SCE/SMS AIN Access to create and administer applications. Training, documentation, and technical support will address use of SCE and SMS access and administrative functions, but will not include support for the creation of a specific service application.

11.10 When TCG selects SCE/SMS AIN Access, BellSouth shall provide for a secure, controlled access environment in association with its internal use of AIN components.

11.11 When TCG selects SCE/SMS AIN Access for providing services on TCG's network, BellSouth and TCG will work cooperatively to resolve technical and provisioning issues.

12 Trunk Interface Requirements

12.1 If a municipality has converted to E911 service, TCG will forward 911 calls to the appropriate E911 primary tandem, along with ANI, based upon the current E911 end office to tandem homing arrangement as provided by BellSouth. If the primary tandem trunks are not available, TCG will alternatively route the call to a designated 7-digit local number residing in the appropriate PSAP. This call will be transported over BellSouth's interoffice network and will not carry the ANI of the calling party, which is in parity with BellSouth's handling of 911 calls from its customers.

12.2 **911/E911 Trunks**

12.2.1   **Local Switch and Access Tandem Trunks**

12.2.1.1   BellSouth shall provide trunks groups provisioned exclusively to carry intraLATA traffic, as designated by TCG.

12.2.1.2   BellSouth shall provide trunk groups provisioned exclusively to carry interLATA traffic, as designated by TCG.

12.2.1.3   BellSouth shall provide SS7 trunks which provide SS7 interconnection. At TCG's request, MF trunks may be substituted for SS7 trunks where applicable.

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

12.3   911 and E911

12.3.1   If TCG orders Services and Elements, then TCG is also responsible for providing E911 to its end users. BellSouth agrees to offer access to the 911/E911 network pursuant to the following terms and conditions set forth in this Attachment.

12.3.2   Definition

12.3.2.1   The 911 and E911 are requirements that provide a caller access to the applicable emergency service bureau by dialing a 3-digit universal telephone number (911).   911 Arrangements are arrangements for routing 911 calls from TCG end users to the appropriate PSAP, passing certain end user information for display at the PSAP answering station based on the class of 911 service (911 or E911) deployed in the area. BellSouth shall provide 911 Arrangements to TCG in accordance with the provisions below in areas where TCG is authorized to provide local exchange service and BellSouth is the 911 service provider. The provisions in this Section apply only to 911 Arrangements. The 911 functionality for Local Services Resale shall be governed by provisions in Attachment 1 of this Agreement incorporated herein by reference. In providing 911 Arrangements to TCG, BellSouth shall comply with all laws, rules and regulations concerning emergency services. The 911 and E911 functions provided to TCG shall be at least equal in quality and functionality with the support and services that BellSouth provides to its own retail end users.

12.3.3   Requirements

12.3.3.1   911 Service Provisioning. For 911 service, BellSouth will provide to TCG a list consisting of each municipality that subscribes to 911 service. The list will also provide, if known, the E911 conversion date for each municipality and, for network routing purposes, a ten-digit directory number representing the appropriate emergency answering position for each municipality subscribing to 911. TCG will be required to arrange to accept 911 calls from its end users in municipalities that subscribe to 911 service and translate the 911 call to the appropriate 10-digit directory number as stated on the list provided by BellSouth. TCG will be required to route that call to BellSouth at the appropriate to install dedicated facilities from its serving wire center to the appropriate BellSouth tandem or end office. When a municipality converts to E911 service, TCG will be required to discontinue the 911 procedures and being using E911 procedures.

12.3.3.2   E911 Service Provisioning. For E911 service, TCG will be required to install a minimum of two dedicated trunks originating from the TCG serving wire center and terminating to the appropriate E911 tandem. The dedicated trunks shall be, at a minimum, DS-0 level trunks configured either as a 2-wire analog interface or as part of a digital (1.544 Mb/s) interface. Either configuration shall use CAMA-type signaling with multifrequency ("MF") pulsing that will deliver automatic number identification ("ANI") with the voice portion of the call. If the user interface is digital, MF pulses, as well as other AC signals, shall be encoded per the u-255 Law convention. TCG will be required to provide BellSouth daily updates to the E911 database. TCG will be required to forward 911 calls to the appropriate E911 tandem, along with ANI, based upon the current E911 end office to tandem homing arrangement as provided by BellSouth. If the E911 tandem trunks are not available, TCG will be required to route the call to a designated 10-digit local number residing in the appropriate PSAP. This call will be transported over BellSouth's interoffice network and will not carry the ANI of the calling party. TCG shall be responsible for providing BellSouth with complete and accurate data for submission to the 911/E911 database for the purpose of providing 911/E911 to its end users.

12.3.4   Technical Requirements

12.3.4.1   At TCG's request, BellSouth and TCG shall establish dedicated trunk groups to route E911 calls placed by TCG end users to the appropriate BellSouth 911 tandem or selective router. Trunks shall be established as CAMA MF trunks until SS7 connectivity is available. Thereafter, trunks shall be established with SS7 signaling.

12.3.4.2   BellSouth shall provision 911 trunks within 30 calendar days of receipt of TCG's order, or such shorter time as may be established by law, rule, regulation or Commission or F.C.C. order. Alternatively, at its option, TCG may provide the trunks. Regardless of which party provides the trunks, prior to placing a trunk in service BellSouth and TCG shall cooperate in testing to assure proper functioning of the E911 system for calls delivered over the trunk.

12.3.4.3   BellSouth shall assure sufficient capacity at the 911 tandem or selective router to meet TCG's requests for interconnection within 30 calendar days after receipt of the request. There shall be no limit on the number of trunks used by TCG to connect to the 911 tandem or selective router. Interconnection to the 911 tandem shall be established to provide path and route diversity.

12.3.4.4   BellSouth shall provide the following information to TCG, and shall promptly notify TCG of any changes:

12.3.4.4.1 BellSouth processes and requirements for ordering trunks for 911 trunks and interconnection to the 911 tandem or selective router.

12.3.4.4.2 Trunk group specifications.

12.3.4.4.3 E911 tandem CLLI codes, circuit IDs, point codes, LEC order number, and IS code and address.

12.3.4.4.4 Description of BellSouth's diversity for facility routing.

12.3.4.4.5 Maintenance procedures for 911 trunk groups, including, but not limited to, contact names and numbers, escalation lists, and the hours that maintenance is available.

12.3.5   E911 Call Routing and Provision Customer Information to PSAP

12.3.5.1   BellSouth shall route E911 calls delivered by TCG to BellSouth's 911 tandems or selective routers to PSAPs in the same manner that BellSouth routes E911 calls from its own retail customers. BellSouth shall provide and validate TCG customer information from the ALI/ANI database in the same manner BellSouth provides and validates information for its own retail customers.

12.3.5.2   BellSouth shall automatically update the ALI/DMS databases with respect to NPA split conversions.

12.3.6   Master Street Address Guide ("MSAG")

12.3.6.1   BellSouth shall provide TCG access to the MSAG at least equal in quality and functionality with the access BellSouth provides to itself. BellSouth shall provide TCG with a complete copy of the MSAG via CD Rom which is usable with personal computers, free of charge, once each year. Quarterly updates for each state are available for an additional charge.   BellSouth shall cooperate with TCG to ensure the accuracy of information about TCG Customers in the MSAG and shall assist in resolving any errors. If BellSouth discovers an error in the MSAG, BellSouth shall notify PSAPs and TCG of any errors in the MSAG concerning TCG Customers.

12.3.7   Other

12.3.7.1   BellSouth shall provide TCG with 10-digit emergency telephone numbers for operator handling of emergency calls, at least equal in quality and functionality with the provisions of such information to itself.

12.3.8   Technical References

12.3.8.1   BellSouth shall provide 911 Arrangements to TCG based upon modified NENA 2 Recommendations.

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

12.3.10   The 911 and E911 functions provided to TCG shall be at least at parity with the support and services that BellSouth provides to its end users for such similar functionality.

12.3.11   Detailed Practices and Procedures. The detailed practices and procedures contained in the E911 Local Exchange Carrier Guide For Facility-Based Providers as amended from time to time during the term of this Agreement will determine the appropriate practices and procedures for BellSouth and TCG to follow in providing 911/E911 services.