

TELECOMMUNICATION SYSTEMS, INC.

REGULATIONS AND SCHEDULE FOR

E9-1-1 SERVICES

WITHIN

THE STATE OF TEXAS

Issued: August 1, 2011
Issued by:

Bruce A. White, Secretary
TeleCommunication Systems, Inc.
275 West Street Annapolis, MD 21401

Effective: August 1, 2011

CHECK SHEET

The TITLE page through page 30 inclusive of the tariff are effective as of the date shown on an individual sheet. Original and revised pages, as named below, comprise all changes from the original Tariff in effect on the date indicated.

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5.1. SERVICE AREAS.....30

CONCURRING, CONNECTING OR OTHER PARTICIPATING CARRIERS

CONCURRING CARRIERS

None

CONNECTING CARRIES

None

OTHER PARTICIPATING CARRIES

None

TARIFF FORMAT AND EXPLANATION OF SYMBOLS

Page Numbering: Page numbers appear in the upper right hand corner of the page. Pages are numbered sequentially. From time to time new pages may be added to the Tariff. When a new page is added between existing pages a decimal is added to the preceding page number. For example, a new page added between Pages 3 and 4 would be numbered 3.1.

Explanation of Symbols: When changes are made in any Tariff page, a revised page will be issued replacing the affected Tariff page. Changes will be identified on the revised page(s) in the right hand margin on each line changed through the use of the following symbols:

- (C) To signify changed regulation
- (D) To signify discontinued material
- (I) To signify rate or charge increase
- (M) To signify material relocated without change in text or rate
- (N) To signify new material
- (O) To signify material relocated without change in text but with an increase in rate
- (R) To signify reduction
- (S) To signify reissued material
- (T) To signify a change in text but no change in rate or regulation
- (Z) To signify a correction

CONTENTS**SECTION 1. - GENERAL REGULATIONS****1.1. APPLICATION OF TARIFF**

This tariff sets forth the service offerings, rates, terms and conditions applicable to the furnishing of intrastate end-user telecommunications services by TeleCommunication Systems, Inc., hereinafter referred to as the Company, to customers within the State of Texas.

1.2. DEFINITIONS**Automatic Location Identification (ALI) Database**

See Location Database. Traditionally, the ALI Database maintained the name and address associated with the calling party's telephone number (identified by ANI Feature). In the future, ALI data may only be a portion of the location data available in the Location database.

Automatic Location Identification (ALI) to Automatic Location Identification (ALI) data transfer

A feature by which Automatic Location Identification (ALI) data is transferred to another provider's Automatic Location Identification (ALI) system.

Automatic Location Identification (ALI) PSAP port

A port on the ALI database system used to deliver Automatic Number Identification (ANI) to the PSAP.

Automatic Number Identification (ANI)

A feature by which the calling party's ANI telephone number is forwarded to the E9-1-1 Control Office and to the PSAPs Display and Transfer Units.

Business Customer

A Customer who subscribes to the Company's Service(s) and whose primary use of the Service is of a business, professional, institutional, or otherwise occupational nature.

Company

Used throughout this tariff to refer to TeleCommunication Systems, Inc., a Maryland corporation, unless otherwise clearly indicated by the context.

SECTION 1. GENERAL REGULATIONS, CONTINUEDCustomer

A current or potential buyer or user of the services identified in this tariff. This is typically through purchasing the services; however, the term also includes by extension anyone who uses or experiences the services of another.

Database Management System (DBMS)

See Location Validation Function

Default Routing (DR)

A feature activated when an incoming E9-1-1 call cannot be selectively routed due to an ANI failure, garbled digits, or other causes. Such incoming calls are routed from the E9-1-1 Control Office to a default PSAP. Each incoming E9-1-1 facility group to the E9-1-1 Control Office is assigned to a designated default PSAP. This is a standard feature of E9-1-1 Service.

Display and Transfer Unit

A console and associated common equipment for displaying ANI numbers at the PSAP attendant position and used by the attendant to activate Fixed and/or Selective Transfer functions.

E9-1-1 Call or E9-1-1 Service

A telecommunications service that uses ANI, ALI (including non-listed and non-published numbers and addresses), Selective Routing, and the three-digit number "9-1-1," for a caller wishing to report police, fire, medical, or other emergency situations (as examples) to a PSAP for referral to a public safety agency. As used in this tariff, E9-1-1 does not include discretionary equipment purchased, or contracted for that is not essential to the provision of E9-1-1 service.

Emergency Service Number (ESN)

Unique numbers provided by the Company to be associated by the customer with street address ranges or other mutually agreed upon routing criteria for selective routing of calls to unique combinations of police, fire, ambulance and any other appropriate agencies responsible for providing emergency service in the E9-1-1 serving area.

End Office

The central office(s) which receive originating E9-1-1 calls.

SECTION 1. GENERAL REGULATIONS, CONTINUED**Enhanced 9-1-1 (E9-1-1) Service Area**

The geographic area in which the E9-1-1 authority will respond to all E9-1-1 calls and dispatch appropriate emergency assistance.

Enhanced 9-1-1 (E9-1-1) Transport

Telephone lines or facilities that are dedicated to an E9-1-1 system. Enhanced 9-1-1 transport lines for PSALI connect a customer's PBX to the E9-1-1 Control Office.

Individual Contract Basis (ICB)

A service arrangement where the regulations, rates, and charges are developed based on the specific circumstances of the Customer's situation and set out in a separate agreement with the Customer. An ICB may incorporate this or other applicable tariffs by reference.

Internet Protocol (IP)

The Internet Protocol (IP) is a method used for communicating data across a packet-switched digital network. Sometimes also referred to as TCP/IP.

Location Database

An ALI, Location Information Server, or other database that stores location information for emergency services use.

Location Database Call Routing Device Port

A port on the Location database system used to deliver 9-1-1 calling information to the Call Routing Device.

Location Validation Function

A system that stores and receives updates of the data required to provide the Call Routing Device and Location Database features and determines whether a location description is valid for the given area. This function was traditionally provided by a DBMS using the MSAG. For TCS's 9-1-1, the data source will not be only the MSAG if an MSAG is used at all. In TCS's 9-1-1 system, the creation of the valid locations is carried out by the Master Location Validation System.

SECTION 1. GENERAL REGULATIONS, CONTINUED**Manual Transfer**

A feature that enables the PSAP attendant to transfer an incoming call by depressing the switchhook of the associated telephone or a button on the Display and Transfer Unit and dialing either a 7-digit or 10-digit telephone number or a 2-digit speed calling code. Manual Transfer is associated with the E9-1-1 trunk unit and is a standard feature of E9-1-1 Service.

Master Location Validation System

A system that acts as the master source for valid locations in a given area. Traditionally, a DBMS is used to create and maintain an MSAG. In TCS's 9-1-1 system, the Master Location Validation System will be a GIS system.

Master Street Address Guide (MSAG)

The document or computer file that lists the standard street names, address ranges, political community designations, and routing codes (ESNs).

Pseudo Automatic Number Identification

A feature in which a number, assigned to the area served by a wireless communications provider's tower or a sector of the area served by a tower, is forwarded to the E9-1-1 Call Routing Device and to the PSAPs Display and Transfer Units.

Private Switch/Automatic Location Identification Customer

The Private Switch or Location Database customer may be a municipality or other state or local governmental unit, or an authorized agent of one or more municipalities or other state or local governmental units to whom authority has been lawfully delegated, or a PBX owner/operator, or Centrex/CENTRON customer who desires to provide station location information to the E9-1-1 system.

Public Safety Answering Point (PSAP)

An answering location for 9-1-1 calls originating in a given area. A PSAP may be designated as Primary or Secondary, which refers to the order in which calls are directed for answering. Primary PSAPs respond first; Secondary PSAPs receive calls on a transfer basis only and generally serve as a centralized answering location for a particular type of emergency call. PSAPs are staffed by employees of service agencies such as police, fire, or emergency medical or by employees of a common bureau serving a group of such entities.

SECTION 1. GENERAL REGULATIONS, CONTINUED**Public Safety Answering Point (PSAP) Trunk**

A trunk used to deliver ANY information from a Call Routing Device to a PSAP. The PSAP trunk may be set to receive a 9-1-1 call in several different formats. The trunk could be TDM or IP. The PSAP trunk is also used to connect and carry voice transmission, and in the case of IP (VoIP) possibly the location information, from the Call Routing Device.

Routing Telephone Number (RTN)

A number that when dialed rings to a specific Public Safety Answering Point. This is used for connectivity from the PSTN to the 9-1-1 network of a Public Safety Answering Point.

Routing Telephone Number Port

A port in the Call Routing Device used to connect the routing telephone number line.

Selective Routing (SR)

A form of call routing that may or may not be applicable to the Company's E9-1-1 that routes an E9-1-1 call from a central office to the designated primary PSAP based upon the identified number of the calling party. (See "Call Routing Device")

Selective Transfer

A feature providing persons at the PSAP the ability to transfer an incoming call to another agency by depressing a single button labeled with the type of agency, e.g., "Fire", on the Display and Transfer Unit. This type of transfer is only available when the SR feature is provided.

CONTENTS**SECTION 2. - RULES AND REGULATIONS****2.1. COMPANY LIABILITY AND INDEMNIFICATION****2.1.1. Limitations on Company Liability**

The Company's liability for any loss or damage arising from errors, interruptions, defects, failures, delays, or malfunctions of any service, equipment, or any part thereof provided pursuant to this Tariff or ICB, whether caused by the negligence of the Company or otherwise, except gross negligence, shall not exceed the greater of \$50.00 or an amount equivalent to the pro rata charges for the service or equipment affected during the period of time that the service or equipment was fully or partially inoperative.

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SECTION 2. RULES AND REGULATIONS, CONTINUED**2.1.2. Release and Indemnification / Intellectual Property**

- a. The customer agrees to release, indemnify, defend, and hold harmless the Company from any and all loss, claims, demands, suits or other action; or any liability whatsoever, whether suffered, made, instituted or asserted by the customer or by any other party or person, for any personal injury to or death of any person or persons, or for any loss, damage or destruction of any property, whether owned by the customer or others, caused in whole or part by the act or omissions of the Company, its agents and its employees. Unless otherwise provided for by an ICB, title to all facilities and intellectual property provided in accordance with this tariff remains in the Company, its partners, agents, contractors, or suppliers. The Company is not obligated to compensate, defend, or indemnify the Customer or any other person for alleged or adjudicated claims of infringement by third parties for any services offered, or for any licensing or court costs related thereto.
- b. The Company will not be liable for any direct, indirect, incidental, special, consequential, exemplary or punitive damages to Customer as a result of any Company service, equipment or facilities, or the acts or omissions or negligence of the Company's employees or agents.
- c. The Company shall not be liable for any delay or failure of performance or equipment due to causes beyond its control, including but not limited to: acts of God, fire, flood, explosion or other catastrophes; any law, order, regulation, direction, action, or request of the United States Government or any state and local governments having or claiming jurisdiction over the Company, or of any department, agency, commission, bureau, corporation, or other instrumentality of any one or more of these federal, state, or local governments, or of any civil or military authority; national emergencies; insurrections; riots; wars; unavailability of rights-of-way or materials; or strikes, lock-outs, work stoppages, or other labor difficulties when it does not involve the Company's employees.

2.1.3. THE COMPANY MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, EXCEPT THOSE EXPRESSLY SET FORTH HEREIN.

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SECTION 2. RULES AND REGULATIONS, CONTINUED

2.1.4. Invasions of Privacy

- a. The customer agrees to release, indemnify, and hold harmless the Company for any infringement or invasion of the right of privacy of any person or persons, caused or claimed to have been caused, directly or indirectly, by the installation, operation, failure to operate, maintenance, removal, presence, condition, occasion or use of any service features and the equipment associated therewith provided pursuant to this Tariff, or by any services furnished by the Company in connection therewith, including, but not limited to, the identification of the telephone number, address or name associated with the telephone used by persons accessing 9-1-1 service hereunder, and which arises out of the negligence or other wrongful act of the Company, except gross negligence, or the employees or agents of any one of them. Notwithstanding the foregoing, such indemnification does not apply to Company's use of customer data for any purpose other than the provision of 9-1-1 services.
- b. The Company shall be indemnified, defended and held harmless by the Customer against any claim, loss or damage arising from Customer's use of services, involving claims for libel, slander, or allegations of infringement of patent or copyright arising from the Customer's own communications.

2.2. GENERAL TERMS AND CONDITIONS

2.2.1. Term of Service; Termination.

The Company and each customer may enter into a separate agreement specifying the term during which the Company shall provide Services.

2.2.2. Payments; Late Fees

Payment for Services provided by the Company shall be due in accordance with the terms and conditions of each customer's contract. Customer agrees to pay a late fee in accordance with the terms and conditions of each customer's contract, but in no event to exceed the late fees which may be charged to customer under the laws of the State of Texas.

SECTION 2. RULES AND REGULATIONS, CONTINUED**2.2.3. Attorneys' Fees**

The Company and each customer may enter into a separate agreement specifying that if any dispute in connection with the provision of Services to customer is submitted to a court, arbitrator, tribunal or other appropriate entity, then all costs and expenses of the parties (including reasonable attorneys' fees) will be paid by the party against whom a determination by such court, arbitrator, tribunal or entity is made, or, in the absence of a determination, wholly against one party, as such court, arbitrator, tribunal or entity directs.

2.3. NOTICES AND COMMUNICATIONS

- 2.3.1. The Customer shall designate the address to which the Company shall mail or deliver all notices and other communications, except that the Customer may also designate a separate address to which Company bills for service shall be mailed. The Company shall designate an address to which the Customer shall mail or deliver all notices and other communications, except that Company may designate a separate address on each bill for service to which the Customer shall mail payment on that bill.
- 2.3.2. Except as otherwise stated in this tariff, or an ICB, all notices or other communications required to be given pursuant to this tariff, or an ICB, or the Agreement for Services will be in writing. Notices and other communications of either party, and all bills mailed by the Company, shall be presumed to have been delivered to the other party on the third business day following placement of the notice, communication or bill with the U.S. Mail or a private delivery service, prepaid and properly addressed, or when actually received or refused by the addressee, whichever occurs first.
- 2.3.3. The Company or the Customer shall advise the other party of any changes to the addresses designated for notices, other communications or billing, by following the procedures for giving notice set forth herein, or as may be required in an ICB.

CONTENTS**SECTION 3. - SERVICE OFFERINGS AND FEATURES****3.1. DESCRIPTION OF SERVICES****3.1.1. Enhanced Universal Emergency Number Service (E9-1-1 Service)**

- a. Enhanced Emergency Number Service, also referred to as E9-1-1, is a telephone communication service whereby one or more Public Safety Answering Points (PSAP) designated by the local 9-1-1 authority may receive telephone calls dialed to the telephone number 9-1-1. Traditional E9-1-1 Service has typically included lines and equipment within one telephone company exchange and/or area served by a Mobile Telephone Switching Office, which could be connected to lines and equipment in another telephone company exchange to permit answering, transferring and dispatching of public emergency telephone 9-1-1 calls originated by persons within the same serving area.

However, E9-1-1 Service may become more decentralized insofar that no single company may provide all of the E9-1-1 hardware, software, or features. The use of twisted pair telephone "lines" is becoming obsolete, replaced by broadband IP connectivity via cable or DSL or other dedicated IP networks. The Company anticipates that different companies shall provide the IP E9-1-1 infrastructure, while other companies provide the E9-1-1 content, features, and functions. This tariff identifies the rules, regulations, and prices that shall govern the Company's offering of the E9-1-1 features and functions.

- b. Enhanced 9-1-1 Service is offered subject to availability of IP broadband facilities.
- c. The E9-1-1 customer may be:
 - (1) A municipality or other state or local governmental unit, or an authorized agent of one or more municipalities or other state or local governmental units to whom authority has been lawfully delegated. The customer must be legally authorized to subscribe to the service and have public safety responsibility by law to respond to telephone calls from the public for emergency police, fire or other emergency services within the telephone areas arranged for 9-1-1 calling.
 - (2) A private telecommunications provider of LEC, CLEC, wireless, or VoIP service with an obligation to route emergency 9-1-1 calls to the appropriate PSAP.

SECTION 3. SERVICE OFFERINGS AND FEATURES, CONTINUED

- (3) A private enterprise with a PBX telephone system with a desire and appropriate state and/or federal authority to route emergency calls to the appropriate PSAP.

3.1.2. Private Switch/Automatic Location Identification Service

The Private Branch Exchange (PBX) switch located on a customer's premises sends Automatic Number Identification information to an Enhanced 9-1-1 (E9-1-1) Control Office or the Company's E9-1-1 Call Routing Device from individual PBX stations for the purpose of providing site or station location information on an E9-1-1 call, or for selectively routing that call to the appropriate Public Safety Answering Point (PSAP). A PS/Location Database also is available to Centrex/CENTRON or VoIP enterprise customers who wish to provide the E9-1-1 system with more specific location and routing information. These are the only intended uses for this service.

3.1.3. E9-1-1 Call Routing Device Service

The E9-1-1 Call Routing Device service will connect local telecommunications or VoIP switches via IP and will route the calls to one or more PSAPs via IP or circuit switched technology as required by the PSAP.

3.1.4. Location Database Service

The Company Location Database will provide the 9-1-1- caller's name, address, phone number, and location (if available) to the PSAP via IP simultaneously with the voice call as it is routed via the IP Call Routing Device. As other content becomes available, the Company will provide such content. For legacy PSAPs with traditional ALI requirements, the Company will provide appropriate connectivity to the Company Location Database. The Company will provide access for authorized users to update Location Database data.

3.1.5. Terms and Conditions

- a. These services are limited to the use of the central office, VoIP, or mobile telephone switching office telephone number, 9-1-1, as the universal emergency telephone number. The Company does not provide the telephone number or dial tone. These services will be provided by the telecommunications carrier.

SECTION 3. SERVICE OFFERINGS AND FEATURES, CONTINUED

- b. The 9-1-1 emergency telephone number is not intended as a replacement for the telephone service of the various public safety agencies which participate in the use of this number. The public safety agencies will subscribe to other telephone services as provided in other tariffs/price lists of other providers.
- c. E9-1-1 Service is furnished to the customer only for the purpose of receiving reports from the public of emergencies or similar events appropriate for action by a PSAP.
- d. E9-1-1 Service provides a one-way incoming service to the appropriate PSAP. Outgoing calls can only be made on a transfer basis or to reconnect a disconnected incoming 9-1-1 call.
- e. E9-1-1 Service is provided solely for the benefit of the customer operating the PSAP, or for the carrier providing telecommunications or data communications service to individuals. The provision of the E9-1-1 Service by the Company shall not be interpreted, construed, or regarded, either expressly or implied, as being for the benefit of or creating any Company obligation toward any third person or legal entity other than the customer(s). The Company does undertake to provide E9-1-1 services using facilities obtained by the PSAP to enable the PSAPs personnel to respond to emergency calls on the PSAPs premises. The PSAP is responsible for the provision and maintenance of cable and wire facilities on the PSAPs side of the Demarcation Point.
- f. Temporary suspension of service at reduced rate is not provided for any part of the E9-1-1 Service.
- g. E9-1-1 information consisting of the names, addresses, and telephone numbers of telephone customers of carriers using Company service is confidential. This information will be provided via Location Database data on a call-by-call basis only for the purpose of responding to emergency calls.
- h. The E9-1-1 calling party forfeits the privacy afforded by non-listed and non-published service to the extent that the telephone number, address, and name associated with the originating station location are furnished to the PSAP.
- i. Default Routing will be provided in lieu of Selective Routing and ANI/ALI Display for E9-1-1 systems served from central offices or mobile telephone switching offices not equipped to transmit ANI.

SECTION 3. SERVICE OFFERINGS AND FEATURES, CONTINUED

- j. The rates charged for E9-1-1 Service do not contemplate the inspection or 100 percent constant monitoring of facilities to discover errors, defects, and malfunctions in the service, nor does the Company undertake such responsibility. The customer shall make such operational tests as, in the judgment of the customer(s), are required to determine whether the system is functioning properly for its use. The customer(s) shall notify the Company promptly in the event the system is not functioning properly.
- k. It is the obligation of the E9-1-1 authority to make arrangements to handle all E9-1-1 calls that originate from telephones served by central offices in the local service area, whether or not the calling telephone is situated on property within the geographical boundaries of the E9-1-1 authority's public safety jurisdiction.
- l. Applications for E9-1-1 Service must be executed in writing by each PSAP or 9-1-1 authority. If application for service is made by an agent, the Company must be provided in writing with satisfactory proof of appointment of the agent by the customer.
- m. The PSAP or 9-1-1 authority is required to furnish the Company its agreement to the following terms and conditions. The PSAP or 9-1-1 authority will subscribe to or provide telephone equipment with a capacity adequate to handle the number of incoming E9-1-1 calls recommended by the Company. The PSAP or 9-1-1 authority is to insure that PSAP premises equipment selected to operate E9-1-1 system features is compatible with the service furnished by the Company. The PSAP or 9-1-1 authority is responsible for the provision and maintenance of cable and wire facilities on the 9-1-1 authority's side of the Demarcation Point.
- n. When the Selective Routing (or comparable) feature is provided, PSAP is responsible for identifying primary and secondary PSAP locations and the unique combinations of police, fire and ambulance or any other appropriate agencies responsible for providing emergency service. The PSAP is responsible for identifying the E9-1-1 serving area and for associating the Company-provided Emergency Service Numbers with the street address ranges or other criteria for selective routing of calls. Legacy ESNs may be used. ESNs will be carried in the Data Management System (DMS) or equivalent to permit routing of 9-1-1 calls to the primary and secondary PSAPs responsible for handling of calls from each telephone in the E9-1-1 serving area. The following terms define the 9-1-1 authority's responsibility in providing this information.

SECTION 3. SERVICE OFFERINGS AND FEATURES, CONTINUED

- (1) Initial and subsequent ESN assignments by street name, address range and area or other mutually agreed upon routing criteria shall be furnished by the 9-1-1 authority to the Company prior to the effective date of service. If the PSAP has legacy ESNs assigned by previous E9-1-1 service providers, these ESNs may be retained if the PSAP prefers.
- (2) After establishment of service, it is the PSAP's responsibility to continue to verify the accuracy of routing information contained in the address file and to advise the Company of any changes in street names, establishment of new streets, changes in address numbers used on existing streets, closing and abandonment of streets, changes in police, fire, ambulance or other appropriate agencies, jurisdiction over any address, annexations and other changes in municipal and county boundaries, incorporation of new cities or any other matter that will affect the routing of E9-1-1 calls to the proper PSAP.
- (3) The Company will provide; with reasonable frequency to the 9-1-1 authority, upon request a complete electronic copy of the address file previously supplied to the Company by the 9-1-1 authority to permit the 9-1-1 authority to verify accuracy of the police, fire, and ambulance PSAP routing designation.
- (4) Changes, deletions, and additions which the PSAP desires to have made in the address file should be submitted on an "as occurred" basis.
- (5) The Company will furnish an electronic copy to the 9-1-1 authority for verifications showing each change, deletion, and addition to the address file.

SECTION 3. SERVICE OFFERINGS AND FEATURES, CONTINUED**3.2. PRIVATE SWITCH/LOCATION DATABASE SERVICE****3.2.1. Terms and Conditions****a. Private Switch/ Automatic Location Identification**

- (1) In a Private Switch/Location Database service application, the Private Branch Exchange (PBX) owner/operator (or Centrex/similar service customer) must meet the following requirements: Application for Private Switch/Location Database Service must be executed in writing by each PBX customer. If application for service is made by an agent, the Company must be provided in writing with satisfactory proof of appointment of the agent by the customer.
- (2) The customer will coordinate with the E9-1-1 Public Jurisdiction to ensure that area boundaries are identified and that any required additions or modifications to the Master Location Validation System are provided to the Company.
- (3) The customer will provide full local Automatic Number Identification (ANI) for every station within the PBX. The information must be approved by the Company prior to implementation to ensure that no conflict exists between the PBX's numbering plan and the numbering plans of other PBXs or telecommunications carriers.
- (4) ANI multi-frequency signaling must conform to the specifications established by the Company.
- (5) The customer must create, maintain and forward to the Company, current telephone number and address data in the format and time intervals negotiated between the Company and the customer.
- (6) The PBX must be connected to the E9-1-1 Call Routing Device office via IP circuits. The PBX must route 9-1-1 calls to the IP 9-1-1 facilities without overflowing to any other access facility. The Company recommends the enterprise customer order or maintains diverse IP connectivity to provide redundancy to the system.

SECTION 3. SERVICE OFFERINGS AND FEATURES, CONTINUED

- (7) The enterprise customer must develop and implement procedures to prevent the unauthorized or illegal use of Private Switch/Location Database trunks. These dedicated trunks may not be used for any purpose other than 9-1-1.
- (8) The customer must use personal computer hardware and software (or PC equivalent hardware and software) for ongoing customer record update programs and processes that conform to specifications established by the Company.

b. Diversification and Redundancy

Customers can request diversification and redundancy of any or all IP facility routes. These IP facilities shall be provided by the appropriate ISP selected by the customer(s). Additional charges for such service utilizing the facilities, or the construction and provisioning thereof, will be the responsibility of the customer and will be assessed by the ISP.

3.3. E9-1-1 TRUNKS

3.3.1. E9-1-1 Trunks are high speed broadband IP or equivalent data-only circuits which:

- a. Originate from the Company Call Routing Device and terminate at PSAP premises demarcation; or
- b. Originate from the local exchange carrier end office (LEC or CLEC) and terminate at the Company E9-1-1 Call Routing Device; or
- c. Originate from the mobile telephone switching office and terminate at the Company E9-1-1 Call Routing Device; or
- d. Originate from any VoIP Service Provider softswitch and terminate at the Company E9-1-1 Call Routing Device; or
- e. Originate from any enterprise VoIP PBX softswitch and terminate at the Company E9-1-1 Call Routing Device; or
- f. Originate from any Emergency Services Gateway and terminate at the Company E9-1-1 Call Routing Device

SECTION 3. SERVICE OFFERINGS AND FEATURES, CONTINUED

- 3.3.2. The E9-1-1 Trunks are provided for the purpose of transporting only E9-1-1 traffic information.
- 3.3.3. E9-1-1 traffic from various enterprises, LECs, CLECs, mobile switching centers, and/or ESGWs may be combined on a single IP circuit.

3.4. E9-1-1 CALL ROUTING DEVICE

The E9-1-1 Call Routing Device will be able to provide two services:

3.4.1. Aggregation

The Call Routing Device can aggregate E9-1-1 calls originating from multiple sources in multiple 9-1-1 jurisdictions into IP circuits that terminate at the appropriate PSAPs demarcation point. The PSAP does not need to designate or arrange for the connectivity between the local telecommunications carrier(s) to the Call Routing Device, or from the Call Routing Device to the customer premises demarcation point. The PSAP or 9-1-1 authority is obligated to acquire connectivity to the IP network.

3.4.2. Alternate Routing

It is the customer's responsibility to designate the alternate location if traffic is to be routed to a secondary PSAP.

3.5. AUTOMATIC NUMBER IDENTIFICATION (ANI)

Automatic Number Identification (ANI) is the feature by which the telephone number or other related routing (pANI) number associated with an inbound 9-1-1 caller is received by the Company and passed on to the proper PSAP. The ANI is also used to determine the proper PSAP to receive the inbound call.

3.6. ALI MANAGEMENT SERVICE

3.6.1. MSAG Management

The Company provides a data management and administration tool that automates the viewing and communication of updates, insertions, and deletions to the MSAG database.

SECTION 3. SERVICE OFFERINGS AND FEATURES, CONTINUED**3.6.2. MSAG Build Services**

The Company acts as the facilitator with the addressing authority in the creation and maintenance of the MSAG utilizing recognized National Emergency Number Association (NENA) standards.

3.6.3. Subscriber Record Management

Subscriber Record Management is the collection of service order records from Telephone Service Providers (TSPs), validation of those records against the MSAG, and storage of the records for the generation of the ALI database.

3.6.4. ALI Database Updates

After processing and validating subscriber record updates, the Company posts ALI records for call routing and for retrieval and display by the PSAP during 9-1-1 calls.

3.6.5. ANI/ALI Discrepancy Resolution

An ANI/ALI discrepancy occurs when an ALI record delivered to a PSAP does not match the information of the caller. The Company will investigate ANI/ALI discrepancy reports and refer each discrepancy to the respective TSP for resolution.

CONTENTS**SECTION 4. - RATES, CHARGES, AND CONDITIONS OF SERVICE**

Feature	Tariff Price	
	Non-Recurring Fee	Recurring Fee
Private Switch/Automatic Location Identification Service	ICB	ICB
E911 Call Routing Device Service	ICB	ICB
Selective Routing (data)	ICB	ICB
Location Database Service	ICB	ICB
Master Location Validation System Management	ICB	ICB
Administer Pseudo ANI (per record)	ICB	ICB
E911 Trunks	ICB	ICB
Automatic Number Identification (ANI)	ICB	ICB
ALI Management Service	ICB	ICB

4.1. RATES BY INDIVIDUAL CONTRACT BASIS (ICB)

In lieu of the rates otherwise set forth in this tariff, rates and charges, including minimum usage, installation, and recurring charges for the Company's services may be established at negotiated rates on an individual contract basis (ICB), taking into account the nature of the facilities and services, the costs of construction and operation, the volume of traffic, the length of service commitment by the Customer, and use of facilities by other customers. Such arrangements shall be considered Special Pricing Arrangements, the terms of which will be set forth in individual Customer contracts. However, unless otherwise specified, the terms, conditions, obligation and regulation set forth in this tariff shall be incorporated into, and become a part of, said contract, and shall be binding on the Company and the Customer. Specialized rates or charges will be made available to similarly situated customers on a non-discriminatory basis. The Company reserves the right to protection from public disclosure of proprietary information contained in such contracts as allowed under law.

Issued: August 1, 2011
Issued by:

Bruce A. White, Secretary
TeleCommunication Systems, Inc.
275 West Street Annapolis, MD 21401

Effective: August 1, 2011

SECTION 4. RATES, CHARGES, AND CONDITIONS OF SERVICE, CONTINUED

In addition to the charges specifically for the customer's services, there may be additional surcharges as mandated by the Texas Public Service Commission, other Texas state authorities, and / or the Federal Communications Commission. The customer is hereby notified that these fees, as applicable, will be added to the customer's bill and that the rates may change periodically. No prior notice of any change will be provided to the customer. The then-current surcharge rate will be applied to the customer's bill even if this tariff has not been updated.

4.2. APPLICATION FOR SERVICE**4.2.1. Requests for this service:**

- a. can only be initiated by a 9-1-1 customer, a PSAP, or authorized state agency;
- b. must be provided to the Company in writing; and
- c. must identify service locations and arrangements.

4.2.2. Customer Obligations

- a. The Customer is responsible for making proper application for service; placing any necessary order, complying with tariff regulations; and payment of charges for services provided.
- b. Specific Customer responsibilities include, but are not limited to the following:
 - (1) the payment of all applicable charges pursuant to this tariff or an ICB;
 - (2) damage to or loss of Company facilities or equipment caused by the acts or omissions of the Customer; or the noncompliance by the Customer, with these regulations; or by fire or theft or other casualty on the Customer Premises, unless caused by the negligence or willful misconduct of the employees or agents of the Company;
 - (3) providing at no charge, as specified from time to time by the Company, any needed personnel, equipment space and power to operate Company facilities and equipment installed on the premises of the Customer, and the level of heating and air conditioning necessary to maintain the proper operating environment on such premises;

SECTION 4. RATES, CHARGES, AND CONDITIONS OF SERVICE, CONTINUED

(4) obtaining, maintaining, and otherwise having full responsibility for all rights-of-way and conduits necessary for installation of communications cable and associated equipment used to provide services to the Customer from the cable building entrance or property line to the location of the equipment space described herein;

(5) any and all costs associated with obtaining and maintaining the rights-of-way described herein, including the costs of altering the structure to permit installation of the Company-provided facilities, shall be borne entirely by, or may be charged by the Company to, the Customer (the Company may require the Customer to demonstrate its compliance with this section prior to accepting an order for service);

(6) providing a safe place to work and complying with all laws and regulations regarding the working conditions on the premises at which Company employees and agents shall be installing or maintaining Company facilities and equipment. The Customer may be required to install and maintain Company facilities and equipment within a hazardous area if, in the Company opinion, injury or damage to Company employees or property might result from installation or maintenance by the Company. The Customer shall be responsible for identifying, monitoring, removing and disposing of any hazardous material (e.g. asbestos) prior to any construction or installation work;

(7) complying with all laws and regulations applicable to, and obtaining all consents, approvals, licenses and permits as may be required with respect to, the location of Company facilities and equipment in any Customer premises or the rights-of-way for which Customer is responsible under this tariff, and granting or obtaining permission for Company agents or employees to enter the premises of the Customer at any time for the purpose of installing, inspecting, maintaining, repairing, or upon termination of service as stated herein, removing the facilities or equipment of the Company; and

(8) not creating, or allowing to be placed, any liens or other encumbrances on Company equipment or facilities.

b. Customer will comply with all applicable provisions of this tariff and/or an ICB.

SECTION 4. RATES, CHARGES, AND CONDITIONS OF SERVICE, CONTINUED

- c. The telecommunications service provider will create, maintain, and forward to the Company current telephone number(s) and address data according to the format and procedures specified by the Company.
- d. The PSAP must develop and implement procedures to prevent the unauthorized or illegal use of Company Next Gen 9-1-1 services. These dedicated facilities may not be used for any purpose other than for 9-1-1 service.
- e. The PSAP must use computer hardware and software for ongoing Private Switch End User (PSEU) record update programs and processes that conform to the specifications outlined by the Company.
- f. PS/ALI Service information consisting of the name, address, and telephone number of PSEUs is confidential. The 9-1-1 customer agrees to use such information only for the purpose of responding to emergency calls.
- g. The PSEU forfeits the privacy afforded by non-listed and non-published service to the extent that the telephone number, the address, and name associated with the originating station location are furnished to the PSAP and to the Company. The PSEU (published and non-published) consents to the storage and retention of PSEU name, telephone number, and address in the data base and also consents to access to this information by the PSAP for the sole purpose of responding to an emergency call.
- h. Cancellation of the service in whole or in part by the 9-1-1 customer prior to establishment thereof, will require payment to the Company of an amount equal to the cost of engineering, manufacturers' billings resulting from equipment orders, installation, assembly, labor, cost of removal and any other costs incurred by the Company up to the time of cancellation resulting from the 9-1-1 customer's order for service. This requirement may be superseded by an explicit Cancellation Clause in the ICB contract with the customer.
- i. Temporary suspension of service at the request of the customer, either partial or complete, is not applicable.

4.3. CONTRACTS

Due to the special and limited nature of the services offered by the Company, all services not defined in this tariff and/or as required by the customer will be provided for in an ICB between the Company and the customer.

SECTION 4. RATES, CHARGES, AND CONDITIONS OF SERVICE, CONTINUED**4.4. SPECIAL INFORMATION REQUIRED ON FORMS**

Due to the special and limited nature of the services offered by the Company, and the requirement that the customer be a carrier or a governmental agency, any special information required of the customer will be provided for in an ICB between the Company and the customer.

4.5. ESTABLISHMENT AND REESTABLISHMENT OF CREDIT

Due to the special and limited nature of the services offered by the Company, and the requirement that the customer be a carrier or a governmental agency, all credit requirements of the customer will be provided for in an ICB between the Company and the customer.

4.6. DEPOSITS

Due to the special and limited nature of the services offered by the Company, and the requirement that the customer be a carrier or a governmental agency, all deposit requirements of the customer will be provided for in an ICB between the Company and the customer.

4.7. NOTICES IN ICB

Due to the special and limited nature of the services offered by the Company, and the requirement that the customer be a carrier or a governmental agency, all notice requirements between the customer and the Company may also be provided for in an ICB between the Company and the customer.

4.8. ISSUANCE AND PAYMENT OF BILLS

Due to the special and limited nature of the services offered by the Company, and the requirement that the customer be a carrier or a governmental agency, all billing procedures between the customer and the Company will be provided for in an ICB between the Company and the customer.

4.9. DISCONTINUANCE AND RESTORATION OF SERVICE

Due to the special and limited nature of the services offered by the Company, and the requirement that the customer be a carrier or a governmental agency, all terms and conditions for the discontinuance and/or restoration of service will be provided for in an ICB between the Company and the customer.

SECTION 4. RATES, CHARGES, AND CONDITIONS OF SERVICE, CONTINUED**4.10. INFORMATION ON SERVICES AND PROMOTIONAL OFFERINGS**

Due to the special and limited nature of the services offered by the Company, the requirement that the customer be a carrier or a governmental agency, the Company does not anticipate that it will offer any promotional offerings.

4.11. TEMPORARY SERVICE

Due to the special and limited nature of the services offered by the Company, and the requirement that the customer be a carrier or a governmental agency, all temporary service needs between the customer and the Company will be provided for in an ICB between the Company and the customer.

4.12. CONTINUITY OF SERVICE

Due to the special and limited nature of the services offered by the Company, and the requirement that the customer be a carrier or a governmental agency, all determinations of interruptions of service, notice to the customer, and apportionment of available services between the customer and the Company will be provided for in an ICB between the Company and the customer.

4.13. EXTENSION OF LINES AND MAINS

Not applicable to the Company.

4.14. FACILITIES ON CUSTOMERS' PREMISES AND SERVICE CONNECTIONS

Due to the special and limited nature of the services offered by the Company, and the requirement that the customer be a carrier or a governmental agency, all procedures regarding the installation of the services, and the respective rights of the Company and the customer regarding access to the customer's premises will be provided for in an ICB between the Company and the customer.

CONTENTS

SECTION 5. - SERVICE AREAS

5.1. SERVICE AREAS

The Company proposes to be able to serve the entire State of Texas.