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24. Line Information Data Base (LIDB) Service24.1 General Description

Line Information Data Base (LIDB) Service provides customers with access to the Telephone Company's LIDB. The Telephone Company's LIDB contains certain call processing attributes of working telephone numbers or accounts. These attributes provide customers with information that can be used to facilitate completion of calls or services.

The Telephone Company's LIDB is accessed through the Telephone Company's Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service which utilizes American National Standards Institute (ANSI) signaling protocol. Customers must arrange for CCS/SS7 signaling transport service. CCS/SS7 signaling transport service can be provided by the Telephone Company as set forth in Section 23 (Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service), or through another CCS/SS7 signaling transport service provider.

Customers participating in LIDB Service originate queries to the LIDB from a switch identified by an originating point code (OPC). The LIDB query is routed through one of two Telephone Company interconnecting Signaling Transfer Points (STPs), as designated by the Telephone Company, to the Telephone Company's LIDB. The requested information, in the form of signaling information, is passed back via one of the two Telephone Company interconnecting STPs to the customer's designated switch where the LIDB query was originated. The STPs' locations are provided in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

LIDB Service will be provided in service categories called LIDB Service Applications. The provision of each service application requires LIDB Query Transport. LIDB Query Transport provides for the transport of the LIDB query from the STPs to the LIDB and back. LIDB Service Applications provide for the query received at the Telephone Company's LIDB. A more detailed description of the rate elements applicable to LIDB Service, how these rate elements are applied and other service specific charges and nonrecurring charges are contained in 24.4 (Rate Regulations). In addition, other service specific charges and nonrecurring charges may apply as specified in 6.8 (Rate Regulations) and 6.9 (Rates and Charges).

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24. Line Information Data Base (LIDB) Service (Cont'd)24.2 LIDB Service Applications

There are three different LIDB Service Applications:

- Validation Service
- OLNS Service
- Preferred Validation Service

Following are detailed descriptions of each of the available service applications.

24.2.1 Validation Service

Validation Service provides access to billing validation data residing in the Telephone Company's LIDB. Validation Service is provided by the Telephone Company to its customers in support of Alternate Billing Services such as Collect Calls and Third Number Billing. Alternate Billing Services allow customers' end users the ability to bill calls to an account not necessarily associated with the originating line.

Validation Service provides customers with potential toll fraud detection by validating toll billing exception data and performing public telephone checks. Validation Service will provide the following functions on a per query basis:

- Determination of whether the billed line has decided in advance to reject certain calls billed as collect or to a third number.⁽¹⁾
- Determination of billed line as a public (including those classified as semi public) or nonworking telephone number.

Validation Service can be used on a call-by-call basis or for limited purpose of validating billing information by a Billing Clearing House.

⁽¹⁾ Effective September 13, 2016, collect calls and calls billed to a third number have been discontinued by the Telephone Company.

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24. Line Information Data Base (LIDB) Service (Cont'd)24.2 LIDB Service Applications (Cont'd)24.2.2 Originating Line Number Screening (OLNS) Service

OLNS Service provides customers with access to the Telephone Company's LIDB to facilitate the completion of originating calls from working telephone numbers. In response to a properly formatted OLNS query, the Telephone Company will provide the originating screening requirements for call processing and billing that are associated with the originating line.

Technical specifications for OLNS indicators can be found in the following Technical Reference Publication:

TP-76550

24.2.3 Preferred Validation Service

Preferred Validation Service is an optional service that provides customers with the ability to have the Telephone Company restrict LIDB information from such customers' query-originating service platforms. This restriction is on a per-Originating Point Code, per Account Owner, per LIDB basis. The Telephone Company provides Preferred Validation Service to customers in support of services that use LIDB Service Applications.

The Telephone Company will activate or deactivate the Preferred Validation Service upon the request of the customer. Such activation or deactivation will be within 2 business days of customer's request, unless the customer requests the service be activated or deactivated earlier than 2 days and if the Telephone Company is able to comply.

Technical specifications for Preferred Validation Service, generically known as Data Screening, can be found in the following Technical Reference Publication:

GR-3697-CORE

When a customer activates Preferred Validation Service, the Telephone Company will return Unavailable Network Resource (error code value 3) for Validation Service and Screened Response (error code value 250) for OLNS when customer's queries encounter Account Owners that the customer has identified for Preferred Validation Service.

Customers that choose to activate the Preferred Validation Service are responsible for any required inter-company notification. The Telephone Company, upon request from Account Owners in the LIDB, will identify customers that have activated the Preferred Validation Service. Customers of the Preferred Validation Service are responsible for resolving all issues associated with their use of the service.

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24. Line Information Data Base (LIDB) Service (Cont'd)24.3 Service Provisioning

LIDB Service procedures will be applied uniformly to all users of the Telephone Company's LIDB Service. The Telephone Company's LIDB will receive and respond to all queries, including the Telephone Company's queries, as defined in the following Technical Reference Publications:

TP 76638
FR-NWT-000271
TR-NWT-000246
TR-TSV-000905
TR-NWT-000954

24.3.1 Manner of Provisioning

- (A) All access to the Telephone Company's LIDB will occur through two Telephone Company interconnecting STPs as designated by the Telephone Company. The Telephone Company will provide customer interconnection to the Telephone Company interconnecting STPs through its CCS/SS7 Interconnection Service provided in Section 23 (Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service). Customers must arrange for the Telephone Company's CCS/SS7 Interconnection Service for themselves or through another CCS/SS7 signaling transport service provider.
- (B) LIDB Service is ordered under the provisions specified in Section 5 (Ordering for Access Service). Also included in that section are other charges which may be associated with ordering LIDB Service (e.g., Service Date Change Charge).

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24. Line Information Data Base (LIDB) Service (Cont'd)24.3 Service Provisioning (Cont'd)24.3.2 Limitations

LIDB Service is to be used only on a call-by-call basis and cannot be used for purposes other than those functions described in 24.2 (LIDB Service Applications) unless expressly authorized in writing by the customer and the Telephone Company.

Data accessed from LIDB may not be stored elsewhere for future use.

Proprietary information residing in the Telephone Company LIDB is protected from unauthorized access and may not be stored in a customer's data base for any reason. All information related to LIDB Service is proprietary. Examples of proprietary information are as follows:

- Billed (Line/Regional Accounting Office (RAO)) Number (resides in the Telephone Company LIDB)
- PIN Number(s) (resides in the Telephone Company LIDB)
- Billed Number Screening (BNS) indicators (resides in the Telephone Company LIDB)
- Class of Service (resides in the Telephone Company LIDB)
- Reports on LIDB usage
- Information related to billing for LIDB usage
- LIDB usage statistics

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24. Line Information Data Base (LIDB) Service (Cont'd)

24.3 Service Provisioning (Cont'd)

24.3.3 LIDB Data Specifications

The Telephone Company's LIDB will contain a record for every working line number and Billed Number Group, as defined in Section 2.7, served by the Telephone Company. Other exchange carriers who may store their data in the Telephone Company LIDB are requested to provide this data as well.

The Telephone Company will update the LIDB information; e.g. add, delete, and modify customer accounts as customers move, become delinquent on their account, or order new service, on a daily basis.

Customers can contact their Telephone Company Business Office to confirm the screening service(s) applied to their account.

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24. Line Information Data Base (LIDB) Service (Cont'd)

24.3 Service Provisioning (Cont'd)

24.3.4 Provision Against Fraudulent Use of Service

- (A) The Telephone Company has procedures in place to deactivate LIDB Service Application data in the event that it is being used fraudulently.
- (B) End user information, pertinent to a Telephone Company investigation, may be shared with customers when validation queries for the specific customer reaches the Telephone Company established fraud threshold level. This fraud threshold level will be applied uniformly to all customers.

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24. Line Information Data Base (LIDB) Service (Cont'd)24.3 Service Provisioning (Cont'd)24.3.5 Provision of Billing Information

When a LIDB Service query is received at the Telephone Company's LIDB, a search is performed for the requested data. The Telephone Company's LIDB formulates a response and tallies the LIDB Service query for billing.

The Telephone Company will provide sufficient information with the bill to enable the customer to determine how the billed amount was calculated. Other reports may be provided as mutually agreed upon. Such agreements may involve additional charges or conditions which will be filed on an individual case basis as specified in Section 12 (Specialized Service or Arrangements).

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24. Line Information Data Base (LIDB) Service (Cont'd)

24.3 Service Provisioning (Cont'd)

24.3.6 Testing

The Telephone Company will perform testing of LIDB Service in conjunction with CCS/SS7 Interconnection Service as outlined in the following Technical Reference Publications:

TP 76638
TR-NWT-000954
TR-TSV-000905.

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24. Line Information Data Base (LIDB) Service (Cont'd)24.3 Service Provisioning (Cont'd)24.3.7 CCS Network Performance

The Telephone Company will support the performance standards as defined in Section 7 of TR-TSV-000905. The overall end-to-end CCS network objective is less than ten minutes unavailability per year from any Signal Point (SP) to any other SP. The performance objective for any single SP, is less than three minutes unavailability per year. The combined link set from the LIDB to the Signal Transfer Point (STP) has a performance objective of less than two minutes unavailability per year.

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24. Line Information Data Base (LIDB) Service (Cont'd)

24.3 Service Provisioning (Cont'd)

24.3.8 LIDB Service System Performance

LIDB Service system downtime will be less than twelve hours per year. The LIDB system is capable of processing up to 100 queries per second. The response time for a query, from switch transmission to reception, should not exceed one second for 99 percent of all queries.

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24. Line Information Data Base (LIDB) Service (Cont'd)24.3 Service Provisioning (Cont'd)24.3.9 LIDB Service System Management

The Telephone Company will administer its LIDB to insure the provision of acceptable service levels to all customers of the Telephone Company's LIDB Service.

During periods of LIDB system congestion, every response returned by LIDB to the switches which originate queries contains an Automatic Code Gapping (ACG) component. The ACG component contains a gap and duration index. The gap index tells the switch how long the switch should wait before sending another query to the LIDB. The duration index tells the switch how long it should continue to perform gapping. Code gapping begins at overload level 3.1, the next level beyond that described above. At overload level 4, the LIDB begins dropping one out of three of the queries received and at level 5, two out of three of the queries received are dropped. At overload level 6, the LIDB discontinues processing of queries by sending an out-of-service message to its supporting STPs. During an overload condition (level 3.1) all query responses contain the ACG component. These procedures are applied uniformly to all users of the Telephone Company's LIDB.

The Telephone Company maintains the right to invoke manual intervention of the automatic code gapping procedure to preserve the integrity of the network.

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24. Line Information Data Base (LIDB) Service (Cont'd)

24.4 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for LIDB Service.

There are two types of rates and charges which apply to LIDB Services. These are usage rates and nonrecurring charges.

Specific rates and charges are set forth in 24.5 (Rates and Charges). Jurisdictional report requirements are set forth in 2.4 (Jurisdictional Reports).

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24. Line Information Data Base (LIDB) Service (Cont'd)24.4 Rate Regulations (Cont'd)24.4.1 Rate Elements

The following provides a list of the various LIDB Service rate elements and how the rate elements are defined.

- LIDB Query Transport (described in (A) following)
- Validation Service Query (described in (B) following)
- OLNS Service Query (described in (C) following)

(A) LIDB Query Transport

The LIDB Query Transport rate element provides for the routing of the LIDB query through one of two Telephone Company interconnecting STPs, as designated by the Telephone Company, to the Telephone Company's LIDB, and back. The STPs locations are provided in the National Exchange Carriers Association, Inc. Tariff F.C.C. No 4.

(B) Validation Service Query

The Validation Service Query rate element provides for the validation of toll billing exception data and performance of public telephone checks; i.e. determining if a billed line is a public (including those classified as semi public) telephone number.

(C) OLNS Service Query

The OLNS Service Query rate element provides for identification of the originating screening requirements for call processing and billing that are associated with an originating line.

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24. Line Information Data Base (LIDB) Service (Cont'd)24.4 Rate Regulations (Cont'd)24.4.2 Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or modification to an existing service). Nonrecurring charges are applicable for the establishment of LIDB Service and service rearrangements. In addition, an Access Order Charge may be applicable as specified in 5.2 (Access Order).

(A) Nonrecurring Charge for Establishment of Service

A nonrecurring charge applies for each request for establishment or change of existing LIDB service. The LIDB Service Establishment Charge applies per OPC per request.

The nonrecurring charge for the establishment of LIDB Services is set forth in 24.5 (Rates and Charges).

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24. Line Information Data Base (LIDB) Service (Cont'd)24.4 Rate Regulations (Cont'd)24.4.2 Nonrecurring Charges (Cont'd)(B) Nonrecurring Charges for Service Rearrangements

Service Rearrangements are changes to existing services which do not result in changes to previously established OPCs.

Changes in previously established OPCs are treated as a discontinuance of the existing service and establishment of a new service and all applicable Nonrecurring Charges will apply.

Certain service rearrangements which are administrative in nature as specified in 6.8.2 (Nonrecurring Charges for Service Rearrangements) will be made without charge except as noted. Provisions for service rearrangements for which nonrecurring charges will apply are also set forth in 6.8.2 (Nonrecurring Charges for Service Rearrangements).

Nonrecurring charges specified in 6.9.5 (Administrative Changes FGD and BSA-D) will apply on a per service order basis.

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24. Line Information Data Base (LIDB) Services (Cont'd)24.4 Rate Regulations (Cont'd)24.4.3 Usage Rates

Usage rates are rates that apply on a per unit basis, e.g. per query, when a specific rate element is used. Usage charges are accumulated over a monthly period. For billing purposes, each month is considered to have thirty (30) days.

(A) LIDB Query Transport

The LIDB Query Transport usage rate applies to each LIDB Service Application query that is routed through one of two Telephone Company's interconnecting STPs to the Telephone Company's LIDB and back. LIDB Query Transport charges are accumulated for each LIDB Service Application query.

(B) LIDB Service Applications(1) Validation Service Query

The Validation Service Query usage rate applies to each query received at the Telephone Company LIDB for billing validation data.

(2) OLNS Service Query

The OLNS Service Query usage rate applies to each query received at the Telephone Company's LIDB for the identification of originating line number screening information.

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24. Line Information Data Base (LIDB) Service (Cont'd)24.4 Rate Regulations (Cont'd)24.4.4 Determining Usage Charges

Usage charges are developed by the Telephone Company based upon recordings of customer queries at the LIDB. If such recordings are not available, the Telephone Company will develop usage charges through the use of assumed usage as described in (B) following.

(A) Determining Usage Charges from Recordings

LIDB Service queries are accumulated by application type and records are generated identifying the number and type of queries routed to and from the LIDB and processed by the OPC of the customer's switch. This information is delivered to the accounting office by teleprocessing for processing and billing. LIDB Service query charges will be accumulated per OPC and billed to the LIDB Service customer each month.

(B) Determining Usage Charges from Assumed Usage

Assumed usage will be used for LIDB Service when the Telephone Company's LIDB records are not available for billing. When assumed usage applies, the assumed usage will be an average of the customer's most recent three months of actual usage. The assumed usage will be used in the development of the customer's LIDB Service usage charges.

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24. Line Information Data Base (LIDB) Service (Cont'd)24.5 Rates and Charges

All rates and charges contained in this section are applicable to Arkansas, Kansas, Missouri, Oklahoma and Texas.

24.5.1 LIDB Query TransportRate Per Query

Per LIDB Service Application Query \$.000270

24.5.2 LIDB Service Applications

(A) Validation Service Query \$.030130

(B) OLNS Service Query \$.006730

24.5.3 Service Establishment ChargeNonrecurring Charge

Per request, per Originating
Point Code (OPC) (NRBLA) \$ 11.00

Rates contained in this transmittal are subject to subsequent adjustment, effective retrospectively, in the event the Commission or a court subsequently authorizes Southwestern Bell Telephone Company, LLC to correct its rates pursuant to pending motions, or petitions for reconsideration or waiver, or in the event of any other adjustment to an order of the Commission or a court.

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