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ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE

21.1 General Description

(RT)

Line Information Data Base (LIDB) Validation Service provides the customer the ability to query billing validation data contained in the Telephone Company's LIDB. Access to the Telephone Company's LIDB provides customers with potential toll fraud detection by validating toll billing exception data and performing public telephone checks.

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. LIDB Validation Service customers must arrange for the Telephone Company's CCS/SS7 Interconnection Service, as specified in Section 20, for themselves or through another CCS/SS7 signaling transport service provider.

There is one rate category, LIDB Query, that applies to LIDB Validation Service. The LIDB Query rate category consists of two rate elements; LIDB Query Transport and LIDB Validation Query. The LIDB Query Transport provides for the transport of the LIDB query from the Signaling Transfer Points (STPs) to the Service Control Point (SCP) and back. The LIDB Validation Query provides for the actual validation of the LIDB information. In addition, other service specific charges and nonrecurring charges may apply as specified in Section 6, Paragraphs 6.7 and 6.8.

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**ACCESS SERVICES**

**21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)**

**21.2 Service Description**

(RT) LIDB Validation Service is provided by the Telephone Company to its customers in support of alternate billing services. LIDB Validation Service provides access to billing validation data which resides in the Telephone Company data base for use with alternate billing services. Alternate billing services allow customers' end users the ability to bill calls to an account not necessarily associated with the originating line. LIDB Validation Service supports alternate billing services such as Collect Calls and Third Number Billing.

Customers participating in LIDB Validation Service, for purposes of obtaining billing validation data that resides in the Telephone Company data base, originate queries to the LIDB from an Operator Services System (OSS) identified by an originating point code (OPC). The LIDB query is routed through one of two Telephone Company interconnecting STPs, as designated by the Telephone Company, to the Telephone Company Regional SCP where the LIDB resides. The requested billing validation data, in the form of signaling information, is passed back via either one of the two Telephone Company interconnecting STPs to the customer's designated OSS where the LIDB query was originated. The STPs locations are provided in the National Exchange Carriers Association, Inc. Tariff F.C.C. No. 4.

(RT) The Telephone Company LIDB will receive and respond to all Billed Number Screening queries, including the Telephone Company's queries. These procedures will be applied uniformly to all users of the Telephone Company's LIDB Validation Service.

LIDB Validation Service will provide the following functions on a per query basis:

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

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## ACCESS SERVICES

### 21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

#### 21.3 Service Provisioning

##### 21.3.1 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 20. LIDB Validation 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 Validation Service is ordered under the provisions specified in Section 5. Also included in that section, are other charges which may be associated with ordering LIDB Validation Service (e.g., Service Date Change Charge).

##### 21.3.2 Limitations

Unless expressly authorized in writing by the customer and the Telephone Company, LIDB Validation Service is not to be used for purposes other than those LIDB functions described in Section 21, Paragraph 21.2, preceding. LIDB Validation Service is used for those functions only on a call-by-call basis or for limited purpose of validating billing information by a Billing Clearing House. Data accessed on 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 alternate billing services 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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By A. D. ROBERTSON, Assistant Vice President-External Affairs  
Southwestern Bell Telephone Company  
St. Louis, Missouri

**P.S.C. Mo. - No. 36  
ACCESS SERVICES TARIFF**

Southwestern Bell Telephone  
Company d/b/a AT&T Missouri

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1st Revised Sheet 4  
Replacing Original Sheet 4

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**ACCESS SERVICES**

**21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)**

**21.3 Service Provisioning-(Continued)**

**21.3.3 LIDB Data Specifications**

The Telephone Company's LIDB will contain a record for every working line number and Billed Number Group. 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.

(RT) The Telephone Company has procedures in place to deactivate billing validation data  
(RT) in the event that it is being used fraudulently.

**21.3.4 Provision Against Fraudulent Use of Service**

End user information, pertinent to the investigation, may be shared with LIDB Validation Service 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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## ACCESS SERVICES

### 21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

#### 21.3 Service Provisioning-(Continued)

##### 21.3.5 Provision of Billing Information

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

The LIDB queries are accumulated and records are generated identifying the number of queries routed to and from the SCP and processed by the OPC of the customer's OSS location. This information is delivered to the accounting office via tape or by teleprocessing for processing and billing. The query charges will be accumulated per OPC and billed to the LIDB Validation Service customer each month.

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.

##### 21.3.6 Testing

The Telephone Company will perform testing of the LIDB Validation Service in conjunction with CCS/SS7 Interconnection Service.

##### 21.3.7 CCS/SS7 Network Performance

The Telephone Company supports the performance standards as defined in Section 7 of TR-TSV-000905. The overall end-to-end CCS/SS7 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, including an SCP, is less than three minutes unavailability per year. The combined link set from the SCP to the STP has a performance objective of less than two minutes unavailability per year.

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## ACCESS SERVICES

### 21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

#### 21.3 Service Provisioning-(Continued)

##### 21.3.8 LIDB Validation System Performance

LIDB Validation Service system downtime will be less than twelve hours per year. The LIDB validation 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.

##### 21.3.9 LIDB System Management

The Telephone Company will administer its LIDB to ensure the provision of acceptable service levels to all customers of the Telephone Company's LIDB Validation Service. During periods of LIDB Validation Service system congestion, an automatic call gapping procedure will be utilized to control such congestion. The automatic call gapping procedure will tell the switch the gap (how long the switch should wait before sending another query) and the duration (how long the switch should continue to perform gapping). For example, during an overload condition, the automatic call gapping procedure will tell the LIDB when to begin to drop one out of three of the queries received. This call gapping procedure will be applied uniformly to all users of the Telephone Company's LIDB Validation Service.

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

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ACCESS SERVICES

21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

21.4 Rate Regulations

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

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

Specific rates and charges are set forth in Section 21, Paragraph, 21.5, following. Jurisdictional report requirements are set forth in Section 2, Paragraph 2.3.13, A.

21.4.1 Rate Elements

The following rate elements apply to LIDB Validation Service:

- LIDB Query Transport (described in (A) following)
- LIDB Validation Query (described in (B) 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 Regional SCP where the LIDB resides, and back. The SCP and STPs locations are provided in the National Exchange Carriers Association, Inc. Tariff F.C.C. No 4.

B. LIDB Validation Query

- (RT) The LIDB Validation 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. For these validation purposes, LIDB Validation Service customers will query the LIDB located in the Telephone Company SCP via the Telephone Company CCS/SS7 network. The LIDB will respond with a verification signal message back to the LIDB Validation Service customer via the Telephone Company CCS/SS7 network.

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## ACCESS SERVICES

### 21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)

#### 21.4 Rate Regulations-(Continued)

##### 21.4.2 Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). Nonrecurring charges are applicable for the establishment of LIDB Validation Service and service rearrangements. In addition, an Access Order Charge may be applicable as specified in Section 5, Paragraph 5.2.

#### A. Nonrecurring Charge for Establishment of Service

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

The nonrecurring charge for the establishment of LIDB Validation Service is set forth in Section 21, Paragraph 21.5, following.

#### 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 Section 6, Paragraph 6.7 will be made without charge except as noted. Provisions for service rearrangements for which nonrecurring charges will apply are also set forth in Section 6, Paragraph 6.7.

Nonrecurring charges specified in Section 6, Paragraph 6.8 will apply on a per service order basis.



**P.S.C. Mo. - No. 36  
ACCESS SERVICES TARIFF**

Southwestern Bell Telephone  
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**ACCESS SERVICES**

**21. LINE INFORMATION DATA BASE (LIDB) VALIDATION SERVICE-(Continued)**

**21.4 Rate Regulations-(Continued)**

**21.4.3 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**

A LIDB Query Transport usage rate applies to each LIDB query that is routed through one of two Telephone Company's interconnecting STPs to the Telephone Company's Regional SCP where the LIDB resides and back. LIDB Query Transport charges are accumulated for each LIDB query and billed to the customer on a monthly basis.

**B. LIDB Validation Query**

A LIDB Validation Query usage rate applies to each LIDB query received at the Telephone Company's SCP. Query charges are accumulated for each OPC and billed to the customer on a monthly basis.

**21.5 Rates and Charges**

**21.5.1 LIDB Query**

**Rate Per Query**

A. Per LIDB Query Transport . . . . . \$ .0045

B. Per LIDB Validation Query . . . . . .0260

- Billed Number Screening

(RT)

**21.5.2 Service Establishment Charge**

**Nonrecurring Charge**

Per Originating Point Code (OPC)  
(NRBLA) . . . . . \$ 11.00