

**ACCESS SERVICE****24. Line Information Data Base (LIDB) Service****24.1 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 NECA Tariff F.C.C. No. 4(T)

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 Sections 6.8 and 6.9 of Tariff FCC No. 73. (T)

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

**24.2 LIDB Service Applications**

There are two different LIDB Service Applications:

- Validation Service
- OLNS 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: (D)

(D)

- 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.

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

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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

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**ACCESS SERVICE****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 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 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 2.7 (Definitions), 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.

**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. (D)  
(D)

**(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 LIDB formulates a response and tallies the LIDB 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).

**24.3.6 Testing**

The Telephone Company will perform testing of the 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

**ACCESS SERVICE****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.

**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 (99%) of all queries.



**ACCESS SERVICE****24. Line Information Data Base (LIDB) Service (Cont'd)****24.3 Service Provisioning (Cont'd)****24.3.9 LIDB 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.

**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 Validation Service. 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 STP locations are provided in the NECA Tariff FCC 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. (D)

**(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.

**ACCESS SERVICE**

**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 Section 6.8.2 of Tariff (T)  
FCC No. 73 will be made without charge except as noted. Provisions for service rearrangements for (T)  
which nonrecurring charges will apply are also set forth in Section 6.8.2 of Tariff FCC No. 73. (T)

Nonrecurring charges specified in Section 6.9.5 of Tariff FCC No. 73 will apply on a per service order (T)  
basis.

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**24. Line Information Data Base (LIDB) Service (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 LIDB Validation Service Query usage rate applies to each query received at the Telephone Company LIDB for billing validation data.

**(2) ONLS Service Query**

The ONLS 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**

**24.5.1 LIDB Query Transport**

Rate Per Query

Per LIDB Service Application     \$ .0045

**24.5.2 LIDB Service Applications**

(A) Validation Service Query     \$ .0260  
(B) ONLS Service Query             \$ .0055

**24.5.3 Service Establishment Charge**

Nonrecurring Charge

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