

ACCESS SERVICE

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34. Service Provider Number Portability (SPNP) Service34.1 SPNP General Description

Service Provider Number Portability (SPNP) Service provides, where facilities permit, the ability: (1) of a local exchange telephone service customer to maintain the same Directory Number (DN) when changing from one telecommunications service provider to another while remaining at the same location and (2) of all telephone company customers (end users, line side access and resale customers) to complete local calls to numbers that have been ported. This capability is initially being activated in the Telephone Company's 13 largest Metropolitan Statistical Areas (MSAs) listed below on a switch specific basis as specified in the Local Exchange Routing Guide (LERG) and/or the National Exchange Carrier Association Inc. Tariff, F.C.C. No. 4, and subsequently in the remaining Telephone Company end office switches based on receipt of specific requests for deployment, where facilities permit. (Nx)
(Nx)

Fort Worth, TX	St. Louis, MO	(Nx) (Nx)
Houston, TX	Kansas City, KS	
Dallas, TX	Wichita, KS	
San Antonio, TX	Little Rock, AR	
El Paso, TX	West Memphis, AR	
Tulsa, OK		
Oklahoma City, OK		

SPNP Service is an advanced intelligent network capability which utilizes the common channel signaling network to query a data base to secure network routing instructions before completion of a call. For NXXs that have been designated as number portable, the data base contains information about an end user's choice of Local Service Provider (LSP) along with the appropriate Location Routing Number (LRN) for that LSP's serving switch that will be used to direct the call to the correct network switching element for completion to the end user customer. Where more than one network is involved in completing the call, the network just before the terminating network (i.e., the N-1 Network) is responsible for querying a SPNP data base to secure the routing information which is then used in routing the call. Where the carrier of the N-1 network fails to query the LNP database, and forwards a call to a switch in the Telephone Company's network for a NXX designated as a number portable code in the LERG and National Exchange Carrier Association Inc. F.C.C. No. 4 and the NXX has at least one number ported, the Telephone Company will bill that N-1 carrier a default query charge as specified in 34.4.1(B), SPNP Query-Default. (S)
(S)

(S) Original effective date is July 6, 1999.

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.2 SPNP Service Application

There are three distinct applications of the SPNP network capability available through the Telephone Company's network:

- (1) SPNP Query Service
 - (A) Prearranged
 - (B) Default
- (2) SPNP Query Service-Database
- (3) Basic SPNP Service

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

34.2.1 SPNP Query Service(A) Prearranged

Customers terminating calls from the N-1 Network to numbers in the Telephone Company's network with NXX codes that have been designated as number portable and the NXX (N) has at least one number ported customers, are responsible (N) for making a query to a database containing information necessary to route calls to number portable NXX codes. The prearranged query capability is provided under this (N) tariff as an optional access service.

Customers responsible for making the database query may arrange in advance to have the Telephone Company's end office or access tandem switch suspend call processing, formulate and launch a query via the common channel signaling network to a database containing information necessary to route calls to number portable NXX codes. When the necessary routing information has been returned from the SPNP database to the switch originating the query, call processing is resumed and the call is routed to the correct network switching element for completion to the called party.

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.2 SPNP Service Application (Cont'd)34.2.1 SPNP Query Service (Cont'd)(B) Default

Customers that have not prearranged with the Telephone Company to query a database containing information necessary to route calls to number portable NXX codes, may terminate such traffic to the Telephone Company's network non-queried. When this occurs the Telephone Company's end office or access tandem switch will suspend call processing and formulate and launch a query via the common channel signaling network to a database to obtain information necessary to route calls to number portable NXX codes. When the necessary routing information has been returned from the SPNP database to the switch originating the query, call processing is resumed and the call is routed to the correct network switching element for completion to the called party. (C)

N-1 Carriers who terminate traffic into the Telephone Company's network and have not prearranged with the Telephone Company to perform LNP queries will be assessed the Billing Charge, as set forth in 34.5.5, for each account to which default queries are billed. (T)
(C)
(C)

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.2 SPNP Service Application (Cont'd)34.2.2 SPNP Query Service - Database

Customers terminating calls from the N-1 Network to numbers in the Telephone Company's network with NXX codes that have been designated as number portable and the NXX has at least one number ported, may be responsible for making a query to a database containing information necessary to route calls to number portable NXX codes. Customers may query the Telephone Company's SPNP database by interconnecting with the Telephone Company's common channel signaling network as provided in Section 23, Common Channel Signaling/Signaling System 7 (CCS/SS7) Interconnection Service. This is an optional access service.

(N)
(N)

Customers responsible for making the database query may arrange in advance to query, via the common channel signaling network, the Telephone Company's SPNP database which contains information necessary to route calls to number portable NXX codes. When the necessary routing information has been returned from the SPNP database to the switch originating the query, call processing is resumed by the originating carrier, local service provider, etc., and the call is routed to the correct network switching element for completion to the called party.

34.2.3 Basic SPNP Service

The Telephone Company queries the database, as required, on behalf of its local exchange, line side access service customers and resale customers to enable completion of calls to numbers with NXX codes that have been designated as number portable. This service is "automatically" provided as part of the dialing process employed in the Telephone Company's local exchange and access network.

On calls placed to numbers with NXX codes that have been designated as number portable, an originating LPN capable switch, using advanced intelligent network capabilities will suspend call processing, formulate and launch a query via the common channel signaling network to a database containing information necessary to route calls to number portable NXX codes. When the necessary routing information has been returned from the database to the switch originating the query, call processing is resumed and the call is routed to the correct network switching element for completion to the called party.

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.3 Service Provisioning

SPNP Service was initially deployed in the Telephone Company's 13 largest MSA's, where facilities permit, on a switch specific basis as specified in the National Exchange Carrier Association Inc. Tariff F.C.C. No. 4 and the LERG.

If subsequent deployment, which is not found in the LERG and the National Exchange Carrier Association Inc. F.C.C. No. 4, is requested in additional switches in the Telephone Company's 13 largest MSAs as defined in Section 34.1 after the initial deployment, the Telephone Company will provide, where facilities permit, portability in these switches based on the following time frames: (Nx)
(Nx)

- Equipped Remote Switches within 30 days
- Hardware Capable Switches within 60 days
- Capable Switches Requiring hardware within 180 days
- Non-capable Switches within 180 days

SPNP Service procedures will be applied uniformly to all users of the Telephone Company's SPNP Service. The Telephone Company's SPNP database will receive and respond to all queries, including the Telephone Company's queries, as defined in the following Technical Reference Publication, listed also in Section 1 with addresses:

- (A) Bellcore GR-2936, Local Number Portability Capability Specification

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34. Service Provider Number Portability (SPNP) Service (Cont'd)

(N)

34.3 Service Provisioning (Cont'd)34.3.1 Manner of Provisioning

SPNP Service will be provisioned using the LRN solution. LRN associates an NPA-NXX-XXXX number with each central office switch that serves ported lines. This number will be known as the LRN for that switch. The LRN will be used as a network routing number for calls to ported numbers served by that switch. The LRN will share an existing NPA-NXX assigned to the specific office it represents. All switching equipment types used by the Telephone Company for SPNP Service will utilize LRN functionality using advanced intelligent network capability.

With SPNP Service, a subscriber served by one switch (the "donor" switch) may move service to a different switch (the "recipient" switch) while retaining the same DN. The LSP of the recipient switch will send information to the Regional Service Management System/Number Portability Administration Center (RSMS/NPAC), the third-party administrator/database, for the porting subscriber. This information will include the porting DN, the LRN of the recipient switch, and Destination Point Codes (DPCs) for CLASS and LIDB Transaction Capability Application Part (TCAP) messages. This information is downloaded to all SPNP databases based on contracts between the third-party administration and the SPNP Service Providers.

(N)

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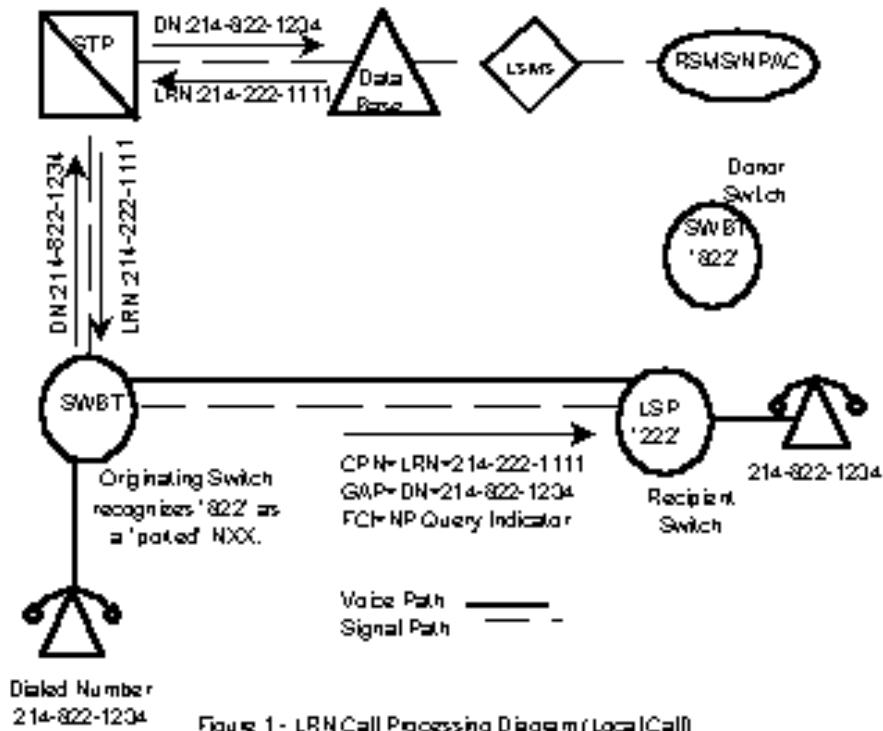
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One Bell Center, St. Louis, Missouri 63101

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34. Service Provider Number Portability (SPNP) Service (Cont'd)

(N)

34.3 Service Provisioning (Cont'd)34.3.1 Manner of Provisioning (Cont'd)

- (1) Caller dials Line B (214-822-1234).
- (2) The Originating Switch performs digit analysis on the dialed digits to determine how to route the call. The switch determines that B is in a portable NPA-NXX (214-822).
- (3) The switch sends a query based on the dialed digits to the SPNP database.
- (4) The SPNP database sends a response containing the LRN of the Recipient Switch.
- (5) The Originating Switch receives the SPNP database response and analyzes the data. The LRN is translated in the LNP Routing Tables and an ISUP route out of the switch is determined. The LRN is stored in the CdPN (Called Party Number) parameter and the dialed digits are stored in the GAP (Generic Address Parameter) of the ISUP IAM message. The FCI Translated Called Number Indicator is set to indicate a query has been done (set to "translated number").
- (6) The call is routed to the Recipient Switch based on the LRN.
- (7) The Recipient Switch receives and processes the contents of the IAM message. The switch determines that an LRN is received and that it is the switch's LRN. The switch replaces the CdPN parameter's contents with the dialed digits stored in the GAP. The switch does digit analysis on the dialed digits and finds the subscriber on the switch.
- (8) The Recipient Switch completes the call to the subscriber (Line B).

(N)

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.3 Service Provisioning (Cont'd)34.3.2 Limitations

SPNP Service is to be used only on a call-by-call basis for routing calls to number portable NXX codes and cannot be used for purposes other than those functions described in 34.2, SPNP Service Applications, unless expressly authorized in writing by the customer and the Telephone Company.

(T)
(T)

Information residing in the Telephone Company's SPNP database is protected from unauthorized access and may not be stored in a customer's data base or elsewhere for any reason.

The LRN method of number portability is limited to circuit switched calls and excludes choke network (further defined in 34.3.3) NXXs until industry standards are defined. Customers with directory numbers that are used for both circuit switched (e.g., voice and/or data) and packet data can port their directory numbers, however, they must disconnect the packet service and reconnect with their new service provider. SPNP Service does not apply to Service Codes (e.g., 411) or Service Access Codes (e.g., 500, 700, 800 and 900).

Groups of lines (e.g., multi-line hunt groups, centrex groups) cannot port separately. If only one directory number in the group ports, it will be removed from the group. However, the entire group of directory numbers may port. The functionality associated with the ported number is determined by the new service provider.

When access traffic is directly routed to an end office, only those numbers in valid NXX codes served by that office, including numbers ported into that office, may be accessed. When routed through an access tandem, only those numbers in valid NXX codes served by end offices subtending the access tandem, including numbers ported into those offices, may be accessed. However, when a call has been routed to an access tandem to a number in a valid NXX code served by an end office subtending the access tandem but the NXX code is shown in the LERG as number portable where the N-1 network has not performed a LNP query, one of the following may occur:

(N)

(N)

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.3 Service Provisioning (Cont'd)34.3.2 Limitations (Cont'd)

(N)

- the call will be routed to the appropriate end office for completion when the call is to a number in a valid NXX code served by an end office subtending the access tandem and a query of the LNP database indicates the number has not been ported;
- the call will be routed to the appropriate end office based on the LRN for completion when the call is to a number in a valid NXX code served by an end office subtending the access tandem and a query of the LNP database indicates the number has been ported and the LRN returned by the database is in a valid NXX code served by an end office subtending the access tandem; or
- the call will be routed to another access tandem and then to the appropriate end office based on the LRN for completion when the call is to a number in a valid NXX code served by an end office subtending the access tandem and a query of the LNP database indicates that the number has been ported and the LRN returned by the database is in a valid NXX code that is served by an end office subtending another access tandem.

When a call is to a number in a valid NXX code shown in the LERG as number portable and the N-1 network performs the LNP query, the N-1 network is responsible for routing the call to the correct access tandem based on the LRN returned by the LNP database.

(N)

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.3 Service Provisioning (Cont'd)34.3.3 Network Management

The Telephone Company will administer its network to ensure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services.

The Telephone Company maintains the right to apply automated or manual protective controls which would generally be applied as a result of occurrences such as failure or overload of Telephone Company facilities, customer facilities, or other networks, natural disasters, mass calling or national security demands.

Choke Networks, also known as High Volume Call-In (HVCI) Networks are also utilized by the Telephone Company to ensure its networks reliability. HVCI service is represented by a unique NXX, not assigned to a specific switch in LERG, that has a presence in several switches within the designated local calling area for which terminating calls are routed over dedicated trunk groups to a single tandem switch. This is done for the purpose of controlling the impact on the local network from potentially high volumes of terminating calls that might be directed to DNs within such NXXs at a customer's request.

Using the Telephone Company's target architecture, the final completion group to a customer subscribing to a choke network service is associated with a pseudo number to prevent any calling party from circumventing the function of the choke network. Choke network customers may designate any local network provider to provide the final completion group without changing the DN associated with their choke network service. However, numbers within special NXXs designated for this purpose are not number portable and are not included in the SPNP Service database.

(T)

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(T)

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.4 Rate Regulations

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

There are three types of rates and charges which apply to SPNP Service. These are monthly usage rates, monthly recurring charges, and nonrecurring charges. (C)
(C)

The rates and charges associated with SPNP Services, which are "query" based, will be billed on a monthly basis, based on recorded usage. For billing purposes, each month is considered to have thirty (30) days.

Specific rates and charges are set forth in 34.5, Rates and Charges. (T)

34.4.1 Rate Elements

The following provides the various SPNP Service rate elements and how the rate elements are defined. The query rate element applies for each query received at the Telephone Company's database regardless of whether the DN is actually ported. (D)

(D)
|
(D)

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.4 Rate Regulations (Cont'd)34.4.1 Rate Elements (Cont'd)(A) SPNP Query - Prearranged (T)

The SPNP Query - Prearranged rate element provides the routing information necessary to complete calls to directory numbers within NXX codes designated as number portable including transport of the query to and from the database. In addition, an Access Order Charge will apply as specified in 5.3.1, Access Order Charge.

(T)
(T)(B) SPNP Query - Default (T)

The SPNP Query - Default rate element provides the routing information necessary to complete calls to directory numbers within NXX codes designated as number portable including transport of the query to and from the database and applies where the customer has not prearranged. In addition, a Billing Charge will apply as specified in 34.4.2(B), Billing Charge.

(T)

(C) SPNP Query - Database (T)

The SPNP Database Query rate element provides for the identification of the LRN associated with the directory number being queried including transport from the STP to the SPNP database (this service is provided in connection with CCS/SS7 Interconnection Service described in Section 23). In addition, an Access Order Charge will apply as specified in 5.3.2, Access Order Charge.

(T)
(T)
(T)(D) Basic SPNP Service (N)

The Basic SPNP Service rate element applies to and provides the capability necessary for the Telephone Company's local and general exchange and lineside access services (e.g., FGA) customers to: (1) maintain the same DN when changing from one Telecommunications Service Provider to another while remaining at the same location, and (2) to complete calls to any DN that has been ported.

This capability is automatically provided as part of the local dialing process employed in the Telephone Company's local exchange network.

This charge applies per line capable of originating local exchange calls with the following exceptions:
- PBX trunks will be assessed the equivalent of 9 monthly rates; and
- ISDN PRI will be assessed 5 monthly rates.

(N)

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.4 Rate Regulations (Cont'd)34.4.1 Rate Elements (Cont'd)(D) Basic SPNP Service (Cont'd)

The SPNP Service rate element will be reduced to the extent of the state assistance, not to exceed 100 percent of the rate in 34.5 following, for: Lifeline Service Subscribers in Arkansas, Kansas, Missouri, Oklahoma and Texas; and Tel-Assistance Service Subscribers in Texas.

34.4.2 Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity. Nonrecurring charges are applicable for the installation of the service and for rearrangements of the service. In addition, an Access Order Charge will apply to the SPNP Data Base Query and SPNP Query - Prearranged services as specified in 5.3.1, Access Order Charges.

(A) Customer Signaling Point Code Translation

A nonrecurring charge applies for the translation of the signaling point code as applicable to the SPNP Query Service - Database. Applicable rate is specified at 23.4(C), Customer Signaling Point Code.

(B) Billing Charge

A one time nonrecurring charge applies per account to N-1 (Cx) Carriers who terminate traffic into the Telephone Company's network and have not prearranged with the (Cx) Telephone Company to perform LNP queries.

34.4.3 Monthly Rates

- (1) Usage rates apply on a per unit basis, i.e., per query, when a specific rate element is used. Usage charges are accumulated over a monthly period. These are:

- (A) SPNP Query - Prearranged
- (B) SPNP Query - Default
- (C) SPNP Query - Database

- (2) A fixed monthly rate applies on a per line basis to each local, lineside access and resale service customer. This charge commences for all affected customers with the effective date of this tariff and continues for 60 months thereafter.

Monthly rates apply each month or fraction thereof, that a specific rate element is provided.

34.4.4 Determining Usage Charges

Usage charges are developed by the Telephone Company based upon recordings of customer queries to the database. If such recordings are not available, the Telephone Company will develop monthly charges based on an average number of queries per month.

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34. Service Provider Number Portability (SPNP) Service (Cont'd)34.5 Rates and Charges

		<u>Monthly Rate Per Query</u>	
34.5.1	SPNP Query - Prearranged		
	- End Office	\$	0.002244
	- Tandem		0.002244
34.5.2	SPNP Query - Default		
	- End Office		0.002244
	- Tandem		0.002244
34.5.3	SPNP Query - Database		0.00072
		<u>Monthly Rate per Line</u>	
34.5.4	Basic SPNP Service	\$	0.00(R) (D)
		<u>Nonrecurring Charge</u>	
34.5.5	Billing Charge		
	- (per access billing account)	\$	214.50

(D)
(D)

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