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19. Service Provider Number Portability (SPNP) Service19.1 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.

SPNP Service is an Advanced Intelligent Network (AIN) capability which utilizes the common channel signaling network to query a database to secure network routing instructions before completion of a call. For NXXs that have been designated as number portable, the database contains information about end user's choice of Local Service Provider(LSP) along with the appropriate Location Routing Number (LRN) for that LSP's service switch that will be used to direct calls to the correct network switching facility for completion to end user customers that have ported their number. 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 Service Provider Number Portability (SPNP) database to secure the routing information is used in routing the call. Where the carrier of the N-1 network fails to query on SPNP database, and forwards a call to a switch in the Telephone Company's network to a NXX designated as a number portable code in the Local Exchange Routing Guide and/or the NECA Tariff F.C.C. No. 4 and the NXX has at least one number ported, the Telephone Company will bill that N-1 carrier a SPNP Query - Default Charge as specified in 19.4(B).

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

19.2 SPNP Service Application

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

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

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

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19. Service Provider Number Portability (SPNP) Service (Cont'd)19.2 SPNP Service Application (Cont'd)(A) SPNP Query Service(1) 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 has at least one number ported are responsible for making a query to a database containing information necessary to route calls to number portable NXX codes. This capability is provided under this 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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19. Service Provider Number Portability (SPNP) Service (Cont'd)19.2 SPNP Service Application (Cont'd)(A) SPNP Query Service (Cont'd)(2) 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 network must query its SPNP database to obtain information necessary to complete such calls. A SPNP Query-Default rate will apply.

Such non-queried traffic may be routed to the Telephone Company's end office or access tandem switch. This will force the Telephone Company's end office or access tandem switch to suspend call processing, 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.

N-1 Carriers who terminate traffic into the Telephone Company's network and have not prearranged with the Telephone Company to perform SPNP queries will also be assessed the Billing Charge, as set forth in 19.4(B).

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19. Service Provider Number Portability (SPNP) Service (Cont'd)19.2 SPNP Service Application (Cont'd)(B) 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 6.1.2(A)(5)(d), Common Channel Signaling Access Capability (CCSAC). This is an optional access service.

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.

(C) 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 LRN capable switch, using advance intelligent network capabilities will suspend call processing and 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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19. Service Provider Number Portability (SPNP) Service (Cont'd)19.3 Service Provisioning

SPNP Service is initially being deployed in the Reno, NV Rate Center and will be deployed in all Telephone Company switches by December 31, 1999.

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 in Reference to other Publications with addresses:

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

19.3.1 Manner of Provisioning

SPNP Service will be provisioned using the LRN solution. LRN associates an NPA-NXX 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 (AIN).

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, the Destination Point Codes 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.

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19. Service Provider Number Portability (SPNP) Service (Cont'd)19.3 Service Provisioning (Cont'd)19.3.2 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 Section 19.2 SPNP Service Applications unless expressly authorized in writing by the customer and the Telephone Company.

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

The LRN method of number portability is limited to circuit switched calls and excludes High Volume Call-in network 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 SPNP query, one of the following may occur:

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19. Service Provider Number Portability (SPNP) Service (Cont'd)19.3 Service Provisioning (Cont'd)19.3.2 Limitations (Cont'd)

- 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 SPNP 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 SPNP 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 the other 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 SPNP 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 SPNP query, the N-1 network is responsible for routing the call to the correct access tandem based on the LRN returned by the SPNP database.

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19. Service Provider Number Portability (SPNP) Service (Cont'd)19.3 Service Provisioning (Cont'd)19.3.3 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 the Local Exchange Routing Guide, 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 database.

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19. Service Provider Number Portability (SPNP) Service (Cont'd)19.4 Rate Regulations

The rates and charges associated with SPNP Services, which are "query" based, will be billed on a monthly basis, based on recorded usage. Query charges will be applied by the Telephone Company based upon the 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.

Specific rates and charges are set forth in 19.5, Rates and Charges.

19.4.1 Rate Elements

The following provides a list of 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.

(A) SPNP Query - Prearranged

The SPNP Query - Prearranged Charge rate element provides for the routing information necessary to complete calls to directory numbers within NXX Code designated as number portable including transport of the query to and from the database. These queries apply to Service Providers with arrangements made in advance with the Telephone Company.

- (1) A recurring usage query rate will be applied on a per unit basis, i.e., per query. Usage charges are accumulated over a monthly period.
- (2) A nonrecurring rate will apply on a per order basis.

(B) SPNP Query - Default

The SPNP Query - Default Charge rate element provides for the identification of routing information necessary to complete calls to directory numbers within NXX Code designated as number portable including transport of the query to and from the database. These queries will apply to all Service Providers with no established arrangements made in advance with the Telephone Company. In addition, a billing charge will apply as specified in 19.5(G) (Rates and Charges).

- (1) recurring usage rate will be applied on a per unit basis, i.e., per query. Usage charges will be accumulated over a monthly period.
- (2) A nonrecurring rate will apply per account the first time an N-1 Carrier terminates into the Telephone Company's network for delivery to a number in an NXX designated in the LERG as number portable and at least one number in the NXX has ported and the N-1 Carrier has not prearranged with the Telephone Company to perform SPNP queries.

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19. Service Provider Number Portability (SPNP) Service (Cont'd)19.4 Rate Regulations (Cont'd)19.4.1 Rate Elements (Cont'd)(C) SPNP Query - Database

The SPNP Query - Database rate element provides for the identification of the routing information associated with the directory number being queried including transport from the STP to the SPNP data base.

- (1) A recurring usage rate will be applied on a per unit basis, i.e., per query. When the actual number of database queries cannot be determined, the Telephone Company will bill a monthly recurring charge.
- (2) A nonrecurring rate will apply on a first and additional basis based on the number of STP mated pairs requested.

(D) Basic SPNP Service

The Basic SPNP Service is billed on a monthly basis to the Telephone Company's local customers, lineside access customers, and customers of a local service provider that resells services of the Telephone Company for the associated local or lineside access services (resale customers). This charge applies to all existing customers beginning April 1, 2000, as defined below and will apply to any potential customer when the customer obtains service.

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 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 the equivalent of 5 monthly rates.

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

19.5 Rates and Charges

	<u>Monthly Recurring Charge</u>	<u>Monthly Rate Per Query</u>
(A) SPNP Query - Prearranged		
- END OFFICE		\$ 0.001075
- Tandem		0.001075
(B) SPNP Query - Default		
- End Office		\$ 0.001075
- Tandem		0.001075
(C) SPNP Query - Database	\$1280.00	\$ 0.00034
		<u>Monthly Rate Per Line</u>
(D) Basic SPNP Service		\$ 0.00 (R)(D)
		<u>Nonrecurring</u>
(E) SPNP Query - Prearranged, per order		\$ 48.40
(F) SPNP Query - Database, per STP Mated Pairs		
- First		\$ 501.16
- Additional		\$ 230.94
(G) Billing Charge, per customer account		\$ 225.85

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