



PRODUCT SHEET

TNS Carrier Network Routing Directory

Reduce routing complexity and optimize inter-carrier traffic

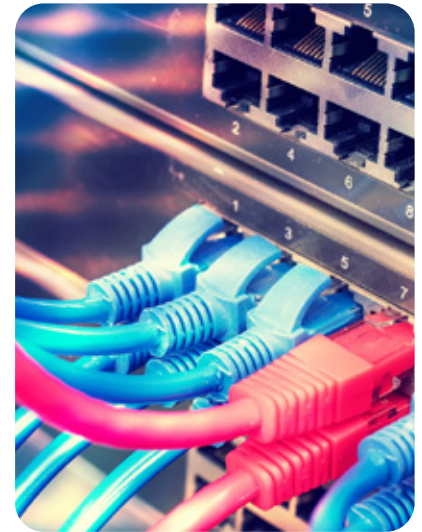
TNS Carrier Network Routing Directory (NRD) is a multi-protocol centralized registry system designed to simplify your routing. NRD empowers your company with a single platform to manage your peering and interconnection relationships, legacy or next generation, for improved routing. By determining the carrier of record, traffic can be routed directly and new revenue generation is simplified.

Fully Managed Multi-Party Registry System

The industry faces a challenge that stems from applications using internet protocols to communicate with consumer devices addressed by telephone numbers. To ensure successful service delivery, the application must have the ability to identify the carrier-of-record for the destined telephone number. Number portability, reseller arrangements and leased numbers complicate carrier-of-record identification. Further complicating IP communications, nationally regulated number management systems do not describe how telephone numbers are allocated for end-user assignment by the service provider for different services such as SMS, MMS and voice.

TNS Carrier NRD offers a cost-effective solution to resolve these issues. Our registry is populated with information sourced from industry and regulatory number management systems, along with authoritative data sourced directly from the carrier or reseller.

This helps the application to discover the accurate carrier-of-record and applicable IP address for a given telephone number by simply performing a number lookup. TNS Carrier NRD consists of key service functions: Local Service Management System, Registrar, Registry, and Central Replica or optional Local Replica which can be collocated with the customer's application, within their data center.



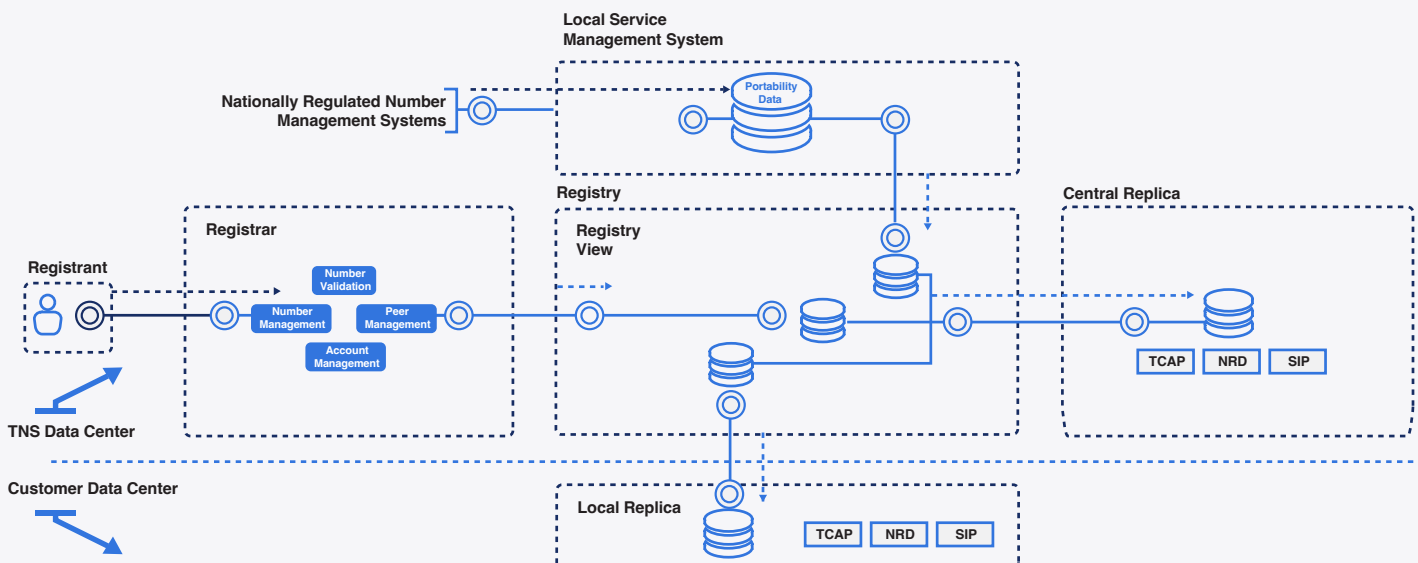
Additional Features

Carrier type enumeration - Allows details of carrier and line type information to be returned in the query responses

LRN override - Allows traditional SS7 customers to receive a pseudo-LRN to peer with IP-based service providers

Do-not-call registry - Provides access to our do-not-call list to help keep you in compliance

CIC override - Send toll-free traffic directly to RESPOG





Features



Real-time access to number portability data - Integration with national and carrier-sourced data to proactively find and utilize the best routes offered by their least-cost termination partners



SPID discovery - Utilizing metadata from industry and authoritative sources, queries are returned with the Service Provider Identifier (SPID) that identifies the carrier-of-record



VoIP Peering Directory - Allows pure IP carriers to advertise their intention to peer directly, bypassing the PSTN Destination



Access and administration - Customers administer their own data through a web-based portal. Multiple access protocols including TCAP, SIP and ENUM are supported



Real-time business intelligence reports - Detail traffic flows and allow customers to prioritize and establish direct peering with preferred carriers

Benefits



Single platform for routing needs - Number Portability data & Numbering Plan data, Toll-free routing, Global MNP data, IP peering, VoLTE routing, SS7, ENUM and SIP protocols supported



Improve operational efficiency - One interface for reduced administrative systems



Reduce costs - Peering directly with partners



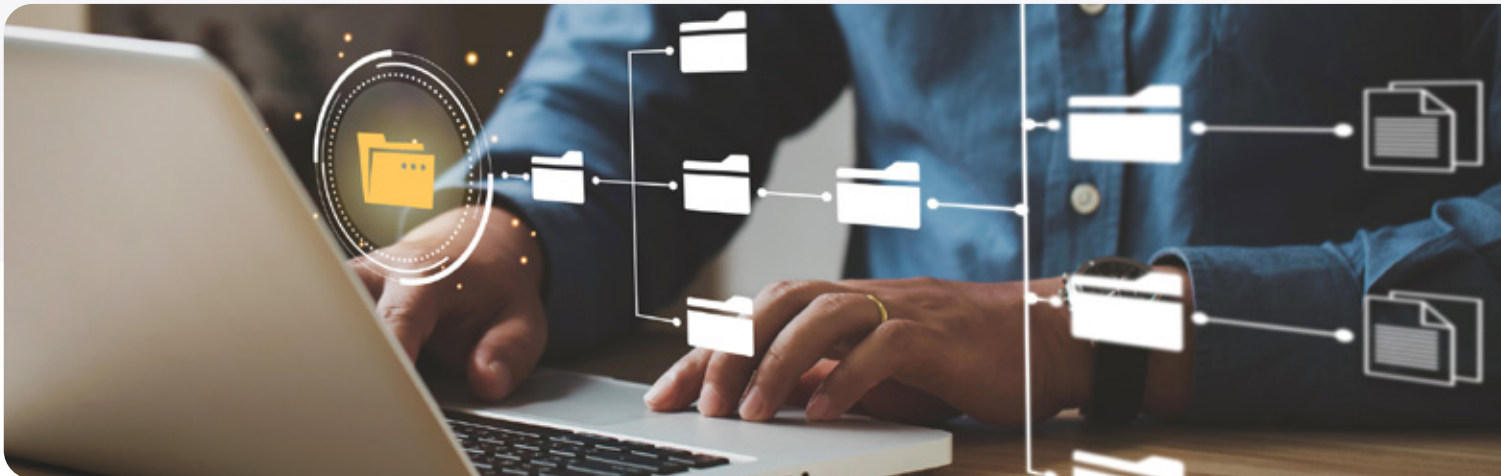
Increase revenue - Send toll-free traffic directly to the RESPORG using CIC override



Establish peering relationships - Provision your subscribers' routing data and control how your peers can route calls to your subscribers



Control peering traffic - Source based routing, unique routing information per querying node



Find out more about how TNS can help you with a wide range of telecom solutions:

solutions@tnsi.com

tnsi.com

USA

+1 703 453 8300

Europe

+44 (0)114 292 0200

Asia Pacific

+61 2 9959 0800