



TNS Roaming Hub for CDMA

The industry's first and only global roaming hub for CDMA operators

The TNS Roaming Hub for CDMA supports the streamlined delivery of global roaming services for wireless operators. With a single contract, Hub members gain access to roaming privileges with other carriers throughout the world.

Features

- **Single roaming agreement** - with only one contract to sign, TNS sets up and manages multiple roaming agreements streamlining your roaming operations
- **Pre-established roaming relationships** - new Hub members gain instant access to an immediate roaming footprint across multiple countries, including suggested inter-carrier roaming rates and policies
- **Extensive coverage** - Hub members represent a group of CDMA operators spanning the globe, with current and targeted members from the United States and Caribbean/Latin America (CALA) to Africa, Asia and the Middle East
- **Flexibility** - the TNS Roaming Hub for CDMA allows members the flexibility to override the default serve rates and establish more favorable, bilateral rates between members. Members can also supplement their Roaming Hub relationships with ad hoc bilateral relationships to achieve their unique strategic goals
- **Streamlined operations** - membership also includes monthly technical data updates and coverage lists that allows you to search roaming coverage by country

Benefits

Reduce costs and complexity - With just one roaming agreement, the TNS Roaming Hub for CDMA offers an economical way to provide expanded roaming. TNS manages agreement negotiations, so members are spared the time and legal expense required to negotiate multiple, bilateral roaming agreements.

Extend global roaming footprint - Offer seamless voice and data services to your subscribers as they travel the world, and provide service to foreign visitors.

Increase speed to market - TNS Roaming Hub for CDMA enables faster rollout of roaming services by reducing agreement setup time, testing time, data provisioning time and signaling/network design. Quickly enables the launch of new services without major capital expense or administrative drain.

Reduce risk of fraud - Through fraud management tools and a simplified process of billing, settlement and clearing, TNS helps to maintain the profitability of your roaming services.

Custom service bundles - When you join the TNS Roaming Hub for CDMA, you gain access to privileged discounts and flexible service bundles offered only to Hub members. Available in a single contractual bundle, an operator can select only the services it needs from a complete suite of supplementary roaming services for CDMA.

One Connection - A World of Opportunities



Transaction Network Services



Supplementary CDMA Services

Signaling (including IS826 and SMS roaming) - TNS offers international gateway functions as a central node for both serving and home carriers including support for IS826 signaling and SMS Roaming

Fraud prevention tools - PIN technology helps to prevent fraud on your network. Optional Data Transport services for Call Data Delivery (CDD) can help you detect fraud in near real time

Call Data Delivery - CDD enables CDMA operators to exchange completed roaming call detail records (CDRs) in near real-time, which facilitates monitoring of fraudulent network usage, prepaid billing, account spending limits, and data collection

CIBER clearinghouse service - TNS Settlement and Exchange is a comprehensive, web-based solution for the exchange of billing data for voice roaming traffic with all roaming partners

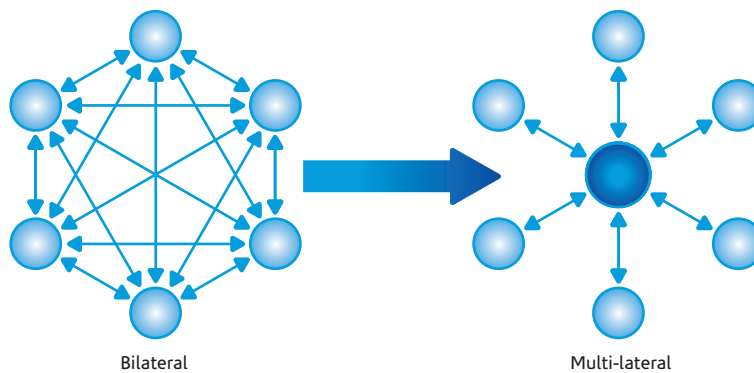
Data roaming services - offer wireless data roaming to your subscribers over all packet data networks including CDMA1x, EVDO, Wi-Fi and WiMax networks

Interstandard roaming - this optional service enables your subscribers with dual-mode phones to seamlessly roam from CDMA to GSM markets

SMS roamer greeting - this service enables you to send SMS messages to roaming subscribers automatically upon roaming into a new country/region

Testing, trouble shooting, quality assurance - the experienced team at TNS will implement your solution within 45 days; including technical data updates and multilingual support team services

Hub Model Simplifies Roaming Relationships



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Prior to the TNS Roaming Hub for CDMA, operators had to negotiate and manage all aspects of securing roaming agreements, implementation, and maintaining connections with each selected roaming partner. This required not only managing multiple roaming agreements, but establishing multiple international signaling links, data clearinghouse services, troubleshooting and testing as well. As an operator expanded market share and as subscribers began to demand broader roaming services, the number of agreements necessary grew very rapidly while the associated administrative overhead increased.

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

Please call +1 360 486 3326 or email tsdsales@tnsi.com or visit www.tnsi.com

About Us

TNS is a leading global provider of data communications and interoperability solutions. Our secure networks and innovative value-added services are used to enable transactions and the exchange of information in diverse industries such as telecommunications, retail, banking, payment processing and the financial markets.



Transaction Network Services