TNS Roamer Data Exchange (RDE)

An international roamer record exchange system which sends completed call detail records (CDRs) and NRTRDE feeds from the serving operator to the home operator in near real-time
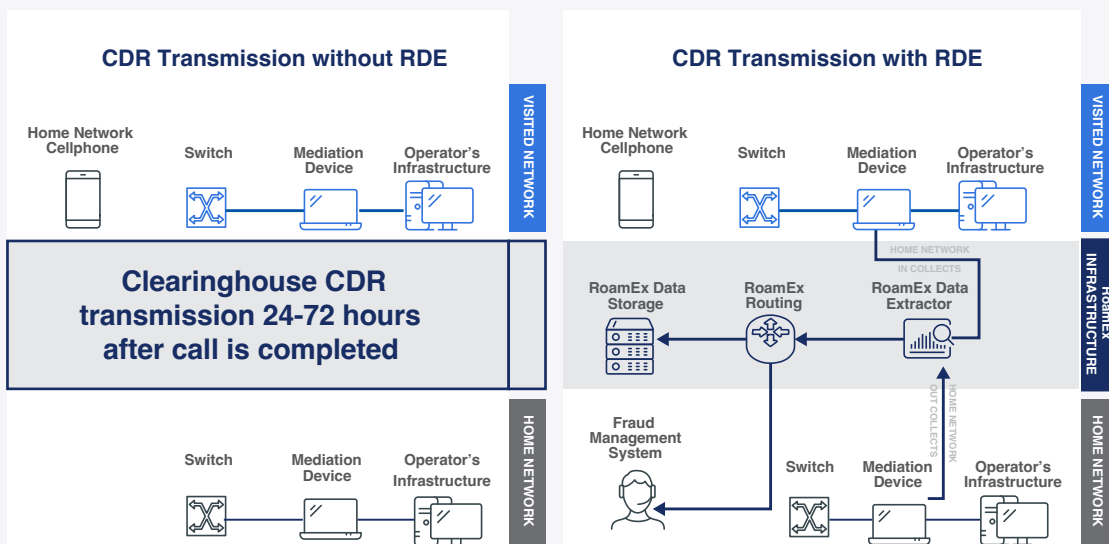
Roamer Data Exchange enables operators to negotiate more favorable inbound roaming agreements and offer their outbound roamers a wide range of options with less risk by providing an integrated suite of scalable, standards-based applications.

How Roamer Data Exchange (RDE) Works

The RDE application is normally connected to the operator's mediation platform or to the network directly using tools available from TNS. The connection allows RDE to collect CDRs from the operator's switches in real-time.

Each participating mobile operator collects completed roaming usage data from its internal mediation devices directly from the actual switches that the mobile handset communicates with and provides them instantly to RDE. Upon collection of the mobile usage data, RDE creates a standard record and routes this roamer call record back to the appropriate home operator's fraud system based upon necessary formats and standards associated with the call.

CDR Transmission without RDE

Home Network Cellphone · Switch · Mediation Device · Operator's Infrastructure — VISITED NETWORK

Clearinghouse CDR transmission 24-72 hours after call is completed

Switch · Mediation Device · Operator's Infrastructure — HOME NETWORK

CDR Transmission with RDE

Home Network Cellphone · Switch · Mediation Device · Operator's Infrastructure — VISITED NETWORK

HOME NETWORK IN COLLECTS

RoamEx Data Storage · RoamEx Routing · RoamEx Data Extractor — RoamEx INFRASTRUCTURE

Fraud Management System · HOME NETWORK OUT COLLECTS · Switch · Mediation Device · Operator's Infrastructure — HOME NETWORK

Proven Industry Partner

The RDE application formerly known as RoamEx RDE, has been supporting mobile operators' fraud control programs while helping to increase roaming revenue, improve revenue assurance, and reduce bad debt since 1993, making it a valued and respected industry solution.

Features

Near real-time visibility – Offers home operator critical visibility to their roaming subscribers by collecting from visited operator switches, creating a standard record and then routing roamer call records back to home operator in near real-time

Fraud mitigation – Roaming data typically reaches the home operator within seconds of arrival on TNS network, allowing mobile operators to respond almost immediately to potential fraud threats

Industry standards based – Supports common mobile technologies (GSM, TDMA, GPRS, LTE, and WiMax), the range of services including voice, messaging and packet data and exchanges data using TD.35 for operators, in full compliance with GSMA standards

Multiple data format support – Accepts a number of data formats including raw switch data, TD.35 files, ASCII formatted records, and TAP files

High performance & scalability – Accurately delivers tens of millions of CDRs per day meeting the needs of mobile operators for high performing, reliable fraud control tools

Benefits

Fraud management – Provides mobile operators with real-time roaming data visibility which can enable quicker and more effective fraud detection, improve revenue assurance, reduce bad debt and increase roaming revenues

Risk-free roaming – Near real-time visibility of roaming subscriber activity allows operators to lift calling restrictions that may be previously enacted in order to mitigate roaming fraud potential

Roaming agreement facilitation – Provides potential leverage to negotiate more favorable roaming rates and/or become the preferred partner in a market by decreasing the partner's exposure to roaming fraud

Resource optimization – Provided as a SaaS solution, covering day-to-day management, monitoring, maintenance, and technical support

Global coverage - Supports both LTE and GSM technologies in over 30 countries and continues to expand and provides worldwide coverage with the inclusion of other GSM NRTRDE gateway exchanges

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