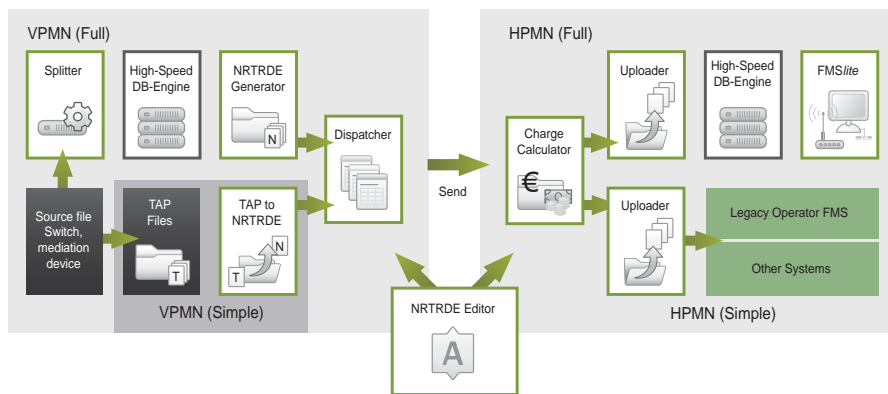




XINTEC NRTRDE SUITE™



The XINTEC NearTrade™ Suite for generating NRTRDE data is a set of high performance software components that can either seamlessly integrate into a network operator's mediation and billing systems or a data clearing house's dataflow processes for NRTRDE.

OUTGOING DATA

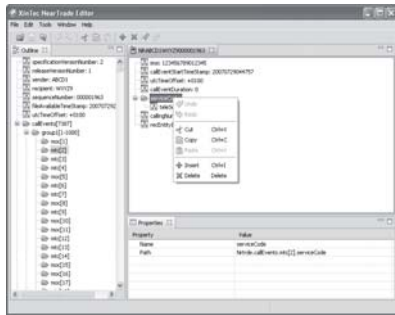
Roaming CDR Splitter	Scans and separates the operator's roaming CDRs from domestic CDRs, which are then split according to roaming partners and stored into high-speed CDR buffers, reserved for each visiting operator.
NRTRDE File Generator	For each visiting roaming partner, NRTRDE files can be generated from the high-speed CDR buffers on a regular basis (e.g. every 5 minutes) for NRTRDE compliance.
NRTRDE File Dispatcher	NRTRDE files can be delivered to the operator's roaming partners or data clearing house.
TAP to NRTRDE	TAP Files will be converted to NRTRDE in a single process, no CDR buffering is required. This is a very simple and comfortable method, since the information contained in a TAP file is already split and can be converted directly into NRTRDE.

INCOMING DATA

Charge Calculator	For even greater fraud detection accuracy and since the charging information is not mandatory, a Charge Calculator will rate the incoming calls. The IOT Information of all involved VPMNs can be introduced.
NRTRDE Receiver/Uploader	Module for decoding NRTRDE files and uploading the CDR information into a high-speed CDR buffer engine or into the existing Fraud Management System (FMS). The uploading method to the FMS can be customised for each system. Different sources besides NRTRDE like HUR and GPRS streams can be also supported.
Compact Fraud Detection and Management (FMSlite)	Fraud can be analysed, detected and reported by this compact and high-performance system that directly accesses NRTRDE files and the high-speed CDR buffers.

XINTEC NRTRDE Mediation Software is a standalone system for NRTRDE file generation and dispatching. It includes a web user interface for file tracking and a monitoring service based on data delivery performance indicators. Optionally, a web-based CDR retrieval feature allows storing massive amounts of information and searching by defining different criteria (e.g. IMSI, IMEI, called event period, services used, called numbers, etc).

VIEWING, EDITING & CONVERTING



The **XINTEC NRTRDE Editor** is the optimal solution for any operator implementing NRTRDE. Its functions include browsing, advanced remove, copying and pasting call events and even TD.35 validation within a NRTRDE file and among multiple files. A NRTRDE viewer and a free NRTRDE Editor demo version are available for download on our website www.xintec.com.

The **XINTEC NRTRDE Converter** is a powerful easy-to-use solution for transforming NRTRDE data to XML or CSV and vice versa. It can also retrieve CDRs from NRTRDE data using different criteria such as IMSI, IMEI, call event timestamp, call type, etc.

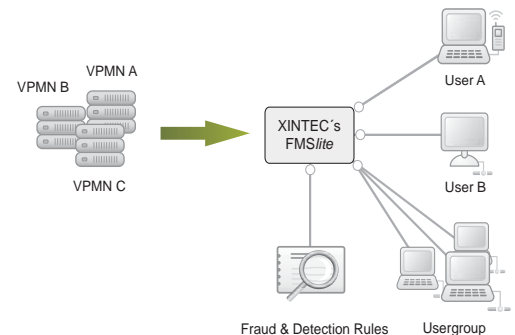
NRTRDE RATING

XINTEC NRTRDE Charge Calculator rates NRTRDE records based on the operator's own defined tariffs or the VPMN IOT. The operator can upload, view and modify its tariff and the roaming partner's IOT via a web interface. To streamline the import of IOT information, XINTEC uses a RAEX interface that extracts the IOT information from RAEX files to load it into the NRTRDE Charge Calculator database.

FRAUD DETECTION AND CREDIT CONTROL

XINTEC *FMSlite™* is a lightweight FMS able to load roaming calls from NRTRDE and different other sources to provide full roaming visibility and control.

Several parameters ensure the analysis and detection indicating possible fraudulent use. Fraud parameters, hot-listing and more can be easily set up from the web-based user interface. Reporting, statistics, export of the data to other systems is also supported by *FMSlite™*.



ABOUT US

Established in 2007, XINTEC provides advanced data transformation software, standalone tools and hosted solutions for near-real-time and real-time data processing.

Bringing together a team of industry experts with core technical development skills in the areas of inter-operator billing and rating, XINTEC delivers high quality technical solutions to reduce your dependency on in-house IT development resources and system software. These, in turn, will allow you to compete more effectively through product innovation and service differentiation, ensuring an increased responsiveness to market challenges.

XINTEC is ready to make a difference to your business. Please contact:

XINTEC SA, Technoport, 66 rue de Luxembourg,
L-4221 Esch-sur-Alzette, Luxembourg
info@xintec.com

