



Syniverse DataNet Near Real-Time Roaming Data Exchange (NRTRDE) Service

The Syniverse DataNet solution offers a robust, innovative and cost-efficient NRTRDE platform that will give you immediate access to the critical information needed to combat roaming fraud.

Are you looking for a powerful weapon in the fight against fraud? If so, it's time to turn to Syniverse DataNet. By taking advantage of Syniverse's operational resources in its core businesses of data clearing and fraud prevention, the Syniverse DataNet solution offers a robust, innovative and cost-efficient NRTRDE platform that will give you immediate access to the critical information needed to combat roaming fraud.

Furthermore, the GSM Association along with the Fraud Forum and BARG are advocating replacement of the existing high usage reports (HUR) process with an industry-wide interoperable NRTRDE procedure that is mandatory for all GSMA members.

The bottom line? You do not have to wait for HURs while fraud losses accumulate.

Benefits of Syniverse DataNet

- Reduces the delivery time of fraud-related roaming information from the visited public mobile network (VPMN) to the home public mobile network (HPMN) from 36 hours for HURs to 4 hours (or less) for NRTRDE.
- Provides individual call detail record (CDR) information in a form that allows operators to cost-effectively manage roaming fraud.
- Guarantees full compliance with GSMA – Syniverse is responsible for the official GSMA editorship and maintenance of the TD.35 standard and has played a leading role in the NRTRDE Steering Committee since its inception, thereby ensuring that DataNet will always be fully compliant to FF.18 and TD.35.
- Assures revenue by comparing your NRTRDE and TAP data to identify revenue leakage.
- Saves time and money with our liability analysis tool that performs analysis for potential scenarios affecting liability with real data so you can determine who is liable for specific fraud cases.
- Heightens your understanding of what's happening on your network with enhanced reporting capabilities that enable you to create detailed technical and business-related reports.

Features of Syniverse DataNet

Syniverse DataNet enables you to send roaming partners' CDRs to their respective home networks and to receive your own subscribers' roaming information from other networks. After receiving roaming CDRs from your roaming partners, Syniverse DataNet sorts them, translates them to the fraud management system format you specify and routes them back to you in near real-time.

Some of the features of Syniverse DataNet include:

- Data mediation – Syniverse DataNet uses your solution and Syniverse hardware and/or software.
- Input record separation, translation and delivery.



Syniverse Technologies

Serving more than 800 communications companies in over 160 countries, Syniverse Technologies (NYSE:SVR) offers market-leading solutions that simplify the complexities of roaming, messaging, network interoperability and business intelligence for mobile operators, MSOs, enterprise verticals and emerging mobile providers.

- Transmission media – Syniverse DataNet uses your choice of any IP connectivity (GRX, VPN, direct link).
- Interface with other NRTRDE vendors.
- Support of all call record types (voice, data, SMS, GPRS).
- File format – Syniverse has developed TD.35 for the industry and will support it as well as any other standard developed for NRTRDE.
- Support of file transfer monitoring and reporting, including TD.35 delivery report support.
- Flexible file (data) transmission frequency based on customer's requirements, including volumes, number of switches, transmission media chosen, etc.
- Error reporting – Syniverse is actively producing the TD.35 error report format for TADIG and will develop any error handling support as required.
- Service level agreements (SLAs) – SLAs will be supported to guarantee timely delivery of data.
- Activity and traffic reports.
- Actual IOT rates are applied to the NRTRDE records received from your roaming partners.
 - Charge is calculated based on the information in the call record (for example, connected number, call event duration) using actual IOT rates.
 - Charge is then populated in record's charge amount field.
- Liability analysis tool enables you to:
 - Query the database to determine liability for fraud calls.
 - Enter the IMSI or IMEI and a date/time range, as well as other optional fields.
 - View a summary screen indicating whether you or your roaming partner is liable for the fraud, including the key factors that determined liability.
 - Download the call events and details that resulted in the liability determination.
- Enhanced reporting capabilities offer added value, including:
 - Flexibility to create and view reports in various formats
 - Ability to create robust ad-hoc report queries against "subject areas" related to NRTRDE data
 - Pre-defined templates to transform queries into useable information, or create original reports and customize with functions like filtering

Near Real-Time Fraud Reports

Syniverse DataNet also provides reports for HPMNs that wish to continue receiving HUR reports in full compliance with GSMA PRD FF.04: High Usage Report Format and Contents. With usage based on NRTRDE data, these reports represent an evolution of HUR reporting because the use of NRTRDE data enables operators to limit their financial risk much more rapidly.

These reports can be readily available because they do not have to be fed into a profiler. As a result, roaming fraud analysis can remain separated from home fraud analysis. Also, if all an operator needs is "the basics" via the receipt of near real-time roaming high usage, we can alarm on these events and send a report. This is an entry-level service that can be augmented with full profiling.

Syniverse is in a unique position to provide this value-added service because of our experience as a data clearinghouse and expertise in rating records. We have full visibility into industry AA.14 data; therefore, these near-real time fraud reports can have an estimated maximum exposure amount calculated based on current AA.14 IOT information.

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