

SILVERENGINE

Software Solutions | Software Products | Professional Services | Consulting
For telecom operators and vendors.

Railway Mobile Networks Analytics GSM-R FRMCS

Pioneering Next-Generation Analytics for Enhanced Railway Communication
and Mobile Network Operations Excellence



Real-Time Analysis and Reporting for
Reliable Communication and
Data-Driven Decisions

- Integrating data from different domains
- Insights through combination of data using machine learning

Geographic Analysis of E2E Train-Radio Service Quality

- Automate detection and resolution processes, freeing up essential personnel
- Proactively reduce reportable communication faults and operational slow zones
- Decrease operational delays and enhance security
- Less manual interaction for faster turnaround

Machine Learning | AI | Stream-processing

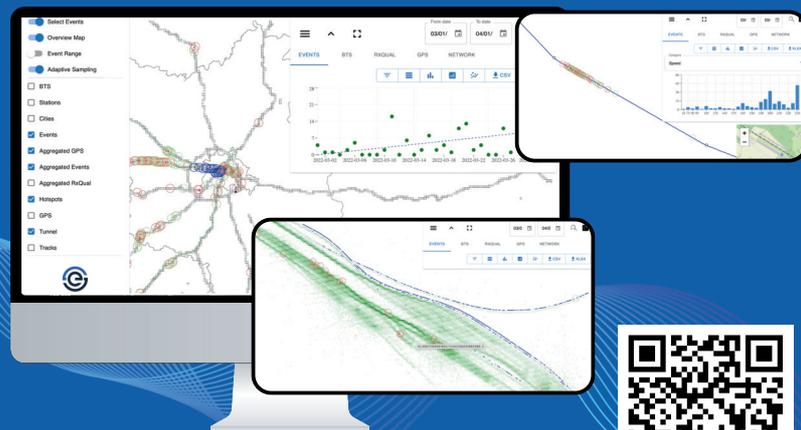
Base Station Data | Train Radio System | Satellite Imagery | Train Movement | IMSI Traces

Automatic Detection

- Interferences with Public Networks
- Physical Obstructions
- Vegetation

Automatic Correlation

- Train Equipment
- Train Models
- Network Equipment Vendors
- Weather



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Railway Mobile Networks Analytics - Offerings

Feature Set

- Real-time processing of data
- Alarming for instant problem notification
- Customizable reports and dashboards
- Hosted or on-premise model
- Powerful geo-visualization Engine
- Support for ad-hoc root cause analysis
- Customizable automated problem detection
- Open API for easy integration into existing processes
- Scalable in processing and storage
- Role-based multi-user access model

Our Capabilities

Mobile Networks Analytics

Experience in data analytics handling extensive datasets for Tier-1 operator networks.

Relevant technologies

Understanding of the relevant technologies and its applicability to problem solutions, beyond the hype.

20+ Years in the Telco Industry

Over 20 years of experience in the Telco domain, fixed and mobile

Machine learning

Experience in applying machine learning algorithms to integrate core network data with vast number of data sources from railway operations.

Consulting

- Domain know-how for subscriber experience analytics
- Analyze data existing in data lakes and databases that are already being collected
- validation of correctness and usability of available data
- Definition of KPIs and analysis of results

Service Delivery

- Data identification, collection and validation
- Analysis of data and KPI definition
- Dashboard modelling
- Recommendation on key KPIs and highlight issues found
- Repeat cycle after improvements and changes have been implemented

Proof Of Concept

- Definition of use case and goals
- Data collection over a period of time
- Analysis of data and KPI definition
- Dashboard creation
- Recommendation on key KPIs and highlight issues found

Product

- Continuous automated problem detection
- Proactive detection of gradually evolving issues
- Ad-Hoc deep dive analysis
- Periodic reports
- Instant Notifications

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