

FMSevolution™

FMSevolution is a cost-effective and innovative software solution designed to combat the major fraud types experienced by Communication Service Providers.

HOW DOES IT WORK?



FMSevolution processes event records (xDRs) received from different network elements.

The xDR information is uploaded into a high-speed database engine in near-real time.

FMSevolution analyses this information, applying business rules and alarm types, and generating a set of fraud cases and reports accessible through the user interface.

A web-based case manager enables the analyst to investigate and manage the fraud alarms

Fraud reports can be dispatched to fraud analysts by email or SMS for alarms requiring immediate action.

A self-learning feature is used by FMSevolution to distinguish between high-usage subscribers and potential fraudsters.

This self-learning algorithm of FMSevolution drastically reduces the false positive alarms generated by the system and helps in improving



BENEFITS

- Early detection of fraud incidents
- Clear visualisation and easy analysis of cases
- Flexible business-wide reporting for all user levels
- Light-touch integration for minimal disruption to existing IT environments
- Fully configurable, modular and scalable architecture that is easy to install and operate
- Compliance with global industry standards and best practice in relation to fraud protection

FEATURES

- Unlimited number of profiles
- Customizable dashboard
- Multiple graphical layouts
- Open data formats
- Real time visualisation and notification
- Capability of automated actions
- xDR files formats: ASN.1, binary, ASCII



A modular approach is one of the key benefits of this technology, giving the CSP the flexibility to pick and choose from a selection of detection modules. The CSP can build a fraud management system by selecting a number of initial modules to get started, and adding to them as needs grow.

FM*Evolution* FRAUD DETECTION MODULES

Fraud Detection Engine

- Flexible subscriber profiling, supporting prepaid, postpaid, multiple thresholds and destination zones
- High-usage alarms
- Hot listing of suspicious subscribers, equipment, destinations

Domestic and Fixed-line Traffic

- Loading of MSC CDR data (Nokia, Ericsson, Alcatel-Lucent, Huawei, Siemens, ZTE, etc.)
- Monitoring against IRSF international number databases to prevent fraudulent activity
- Profiling, hot listing and high-usage detection

GPRS and data

- Loading of GPRS CDR data (Nokia, Ericsson, Alcatel-Lucent, Huawei, Siemens, ZTE, etc.)
- Profiling, hot listing and high-usage detection

Roaming – Inbound and Outbound

- Loading of NRTRDE (TD.35) and TAP 3.X (TD.57)
- Monitoring against IRSF international number databases to prevent fraudulent activity
- Subscriber profiling, hot listing, high-usage detection and anomaly detection

Prepaid Top-up

- Analysis of recharge events to detect unusual patterns in the data

SIM Box Detection

- Specific statistical functions and tools based on forensic data analysis
- CDR correlation algorithms to detect bypassed calls including correlation with Roaming CDRs
- No need for test call probes (to avoid higher marginal costs)

Subscription fraud

- Interfaces to the subscriber database
- Uses behaviour profile checks in relationship to known fraudsters to detect subscription fraud
- Eliminates known fraudsters before losses incurred

SMS Spam

- Detects SMS spam
- Trigger actions by quick blocking of the spammer's mobile line
- Detection and action are near real time to minimize impact of fraud losses

Wangiri detection

- Uses rule configurator and reporting to detect Wangiri fraud
- Focuses on the relationship in A and B number calling patterns

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XINTEC are world-class providers of cost-effective Fraud Management and Revenue Assurance solutions to the telecommunications industry. We enable leading Communications Service Providers to improve their financial performance by preventing and recovering revenue losses.

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