Anam Analyzer

Anam Analyzer is a powerful non-invasive messaging and signalling data capture and analysis system for Mobile Network Operators (MNOs). It extracts messaging and voice traffic data as it flows through the mobile network and, unlike a firewall or router, does not feature in a live traffic call flow. Anam Analyzer delivers significant benefits in the detection of fraudulent activity on the mobile network.

Fraudulent SMS activity is detected through SMS message capture and analysis and the production of real time ongoing business reporting that accurately summarizes the fraud activity within the operator network. Voice fraud is detected through the capture and analysis of voice signalling traffic and is also presented in business-friendly reports in real time.

Anam Analyzer reports provide the customer with deep insights into traffic behaviour patterns that form the basis of a strategy to combat fraud and uncover new streams of revenue for the operator.

Anam Analyzer Product Features

Feature	Details
Speed	Fast set-up and activation Data capture mechanism easily activated/deactivated
Non-Invasive System	No impact on existing network topologies. Anam Analyzer node does not feature in live traffic call flow. No requirement to make changes to traffic routing.
Flexible	Standalone or virtualised environment. Supports SMPP, UCP, SS7, ISUP & other traffic types. Easily adapted for different data types, such as DIAMETER and SIP. Scalable architecture.
Traffic Insights	Captures and processes real-time data Multiple near-real-time visualisations are combined into one web-based dashboard Supports capture & analysis of - Application Originated messages - International & domestic Mobile Terminating SMS - On-net Mobile Originated traffic (for SIM box detection) - ISUP call flows
Highly Secure	Data capture and storage all conducted within the Operator environment.

Data Capture Mechanism
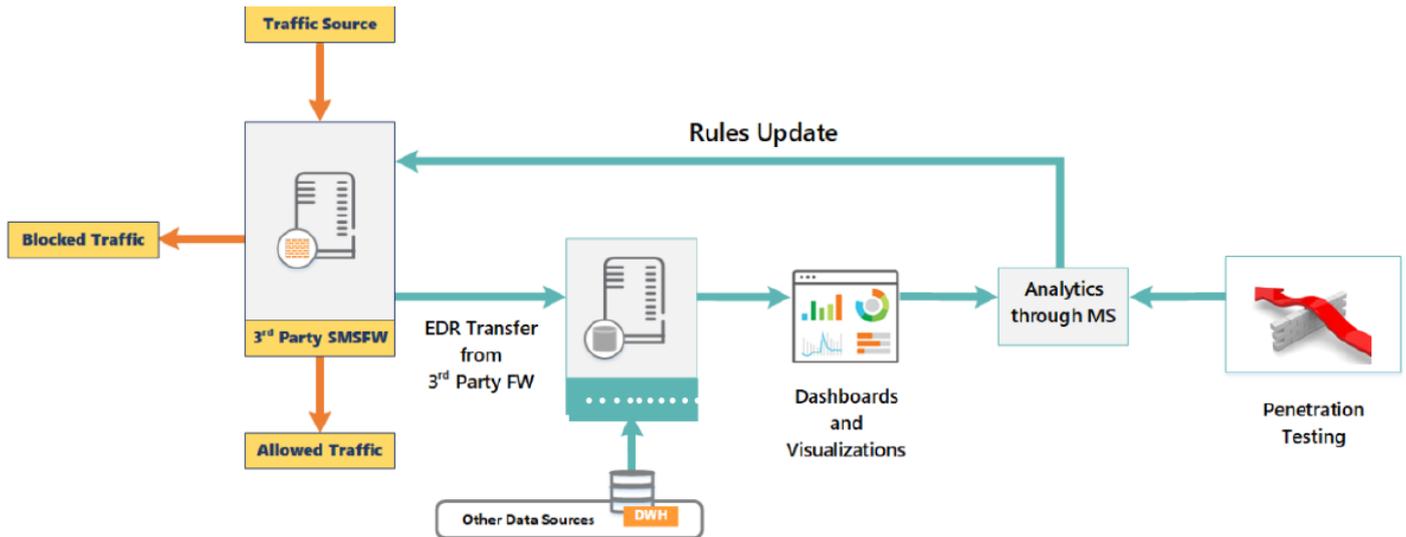
Port Mirroring is used to capture traffic on the LAN switch connected to the STP platforms (for SS7 traffic) and the SMSC platforms (for SMPP/UCP traffic). Anam Analyzer will receive a continuous stream of all signalling data without impacting traffic handling on the network. The mirrored traffic is screened by Anam Analyzer on ingestion so that only relevant traffic is captured for analysis.

Anam Analyzer is designed to work alongside Anam Messaging Firewall or a third party firewall for analysis of SMS grey route data.

System Specification

The precise configuration of Anam Analyzer will depend on factors such as:

- Network subscriber numbers	- Traffic types being monitored
- Volume of traffic reaching Anam Analyzer	- Network characteristics such as geographical extent

Due to the scalable architecture, customers can start small and grow the Anam Analyzer footprint in line with business requirements.

Key Business Benefits

No Network Disruption	Non-invasive solution which can be implemented without any changes to the network
Voice & Messaging Fraud Identification	Ability to identify multiple fraud scenarios, across voice and messaging traffic
Management Reporting to Drive Decision Making	Multiple near-real-time visualisations are combined into one dashboard, delivering insights to support the business case for investment in security products and services. Decision makers can receive direct links to dashboards and PDF reports via email

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