



JI Technology – Private N/W analytics

Understanding private network KPI

JITsvrEPC

JI Technology

Founded in 2008 to provide solutions and business development for MNO, MVNO, System Integrators & Service Providers, these solutions include charging, messaging, gateway applications and service control solutions. Our current & past engagements include Prepaid, Loyalty, Multi Payment Channel service, IOT, SMS gateways, 4G/5G core for Private Networks/MNO/MVNO, Fintech consulting & others.



PRIVATE 4G & 5G EPC

Complete 4G/5G EPC for Enterprise, integrators and service providers using a common core for both 4G and 5G radios



DEVICE CONTROL

1st layer of security for Private Networks by controlling access using IMEI and IMSI



BESPOKE SOLUTIONS

Competitive & agile. Presales through delivery



HIGH AVAILABILITY

Monitor applications and handle multiple failure scenarios to support redundancy and disaster recovery

Private 4G/5G Realtime analytics

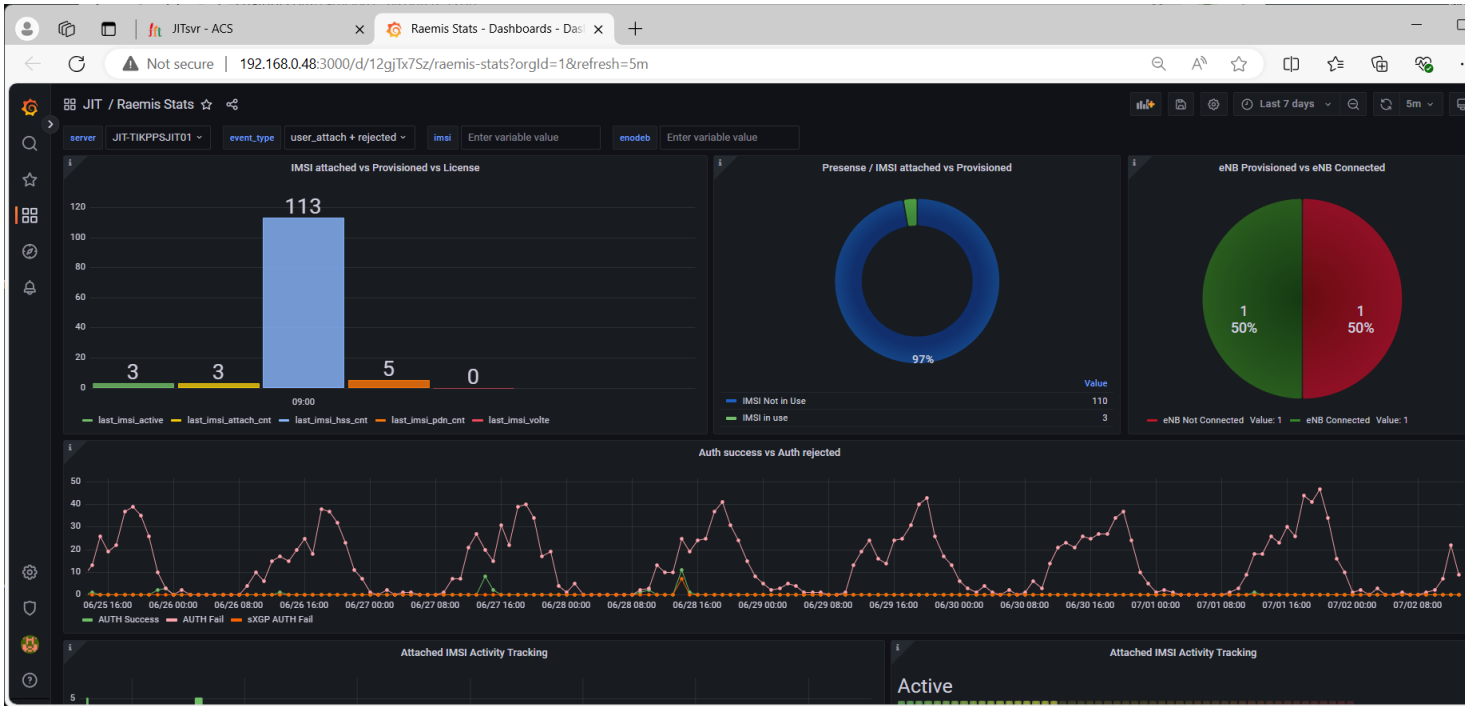
Analytics play an essential role in maintaining security, optimizing performance, and ensuring operational efficiency within private networks. By providing comprehensive insights into network activities, analytics tools enable proactive identification of issues and prompt responses to potential threats, safeguarding data and supporting uninterrupted business operations. In today's interconnected digital environment, robust analytics are indispensable for ensuring the reliability and integrity of private networks. These tools help organizations make informed decisions, streamline processes, and enhance overall network performance, ultimately contributing to cost savings and improved operational outcomes.

Why JIT EPC analytics?

Integrated with the Druid 4G/5G core to use the various real time events API available, data is collected and streamed to a real-time database for visual analysis.

- License usage monitoring to determine utilization rates of the License purchase vs license used
- Control Plane events monitoring to monitor attach and other control plane events and attach failures
- eNB/gNB utilization rates to determine which radio are over/under utilized.
- eNB/gNB traffic rates
- PLMN id lookup / identify interference issues from other private networks
- Filter on IMSI / eNB / Control Plane Event / other. Identify when a SIM was last used





Analytics from Druid Raemis 4G/5G core

The JITsvrEPC Server utilizes APIs available with the Druid Raemis core to allow private network administrators to visualize the current status of the private network IMSI and Radio activity. Understand utilization rates, presence and productivity of the IMSI and eNB connected to the Raemis core. Compare data in realtime as it changes relative to historical data to identify trends and failure patterns.

- Verified with Druid Raemis 5.x 4G and 5G environment
- A default dashboard with multiple panels available including
 1. IMSI utilization: License vs Provision vs Attached
 2. IMSI Presence: In Use vs Not in Use
 3. IMSI Control Plane traffic monitoring. Default to filter on attach events
 4. IMSI Attached monitoring
 5. eNB/gNB monitoring: connected vs disconnected
 6. eNB/gNB monitoring: Number of attached UE per radio
 7. eNB/gNB monitoring: UL/DL throughput per radio
 8. eNB/gNB monitoring: failed events per radio
 9. subscriber events: query UserPlane history per IMSI
 10. User blocked or not: All other checks being successfully, is the UE/IMSI temporarily/permanently blocked?
- S13/N17 Diameter & HTTP API from 4G/5G to JIT EIRsec
- Supported in the JITsvrHA Highly Available / Redundant environment
- Integrates with JIT central EIR (cEIR) for sharing missing/stolen/fraudulent UE IMEI in private networks
- Visit us at <http://www.jitechnology.com>

