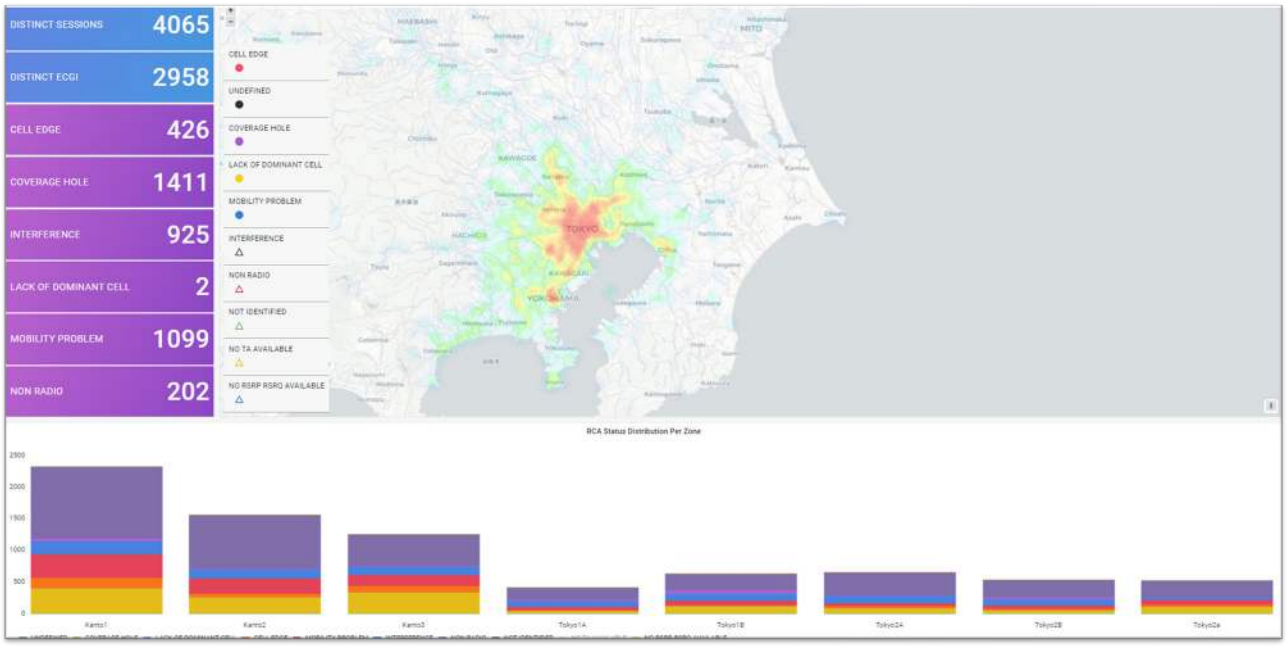
RADCOM RAN Analysis Solution

Problems in the RAN comprise most of the subscriber-impacting issues. RADCOM RAN Analysis offers telecom operators an in-depth analysis of the RAN performance correlated with core data to determine which problems affect subscribers and prioritizes customer-related optimizations and issue resolution.

RAN to core data is also enriched with location-based, so engineering teams can quickly obtain insights to identify areas with poor service quality or radio coverage. These customer-centric insights are critical for understanding the user experience and prioritizing customer-affecting degradations for services like VoLTE and voice-over new radio (VoNR). In addition, the correlated data provides subscriber-based sessions (IMSI-based) that are critical for advanced network troubleshooting.



Benefits:

- Offers real-time visibility into the RAN performance and customer experience
- Detects and determines the root cause of RAN degradations to troubleshoot
- Provides insights for optimization of all RAN configurations (including oRAN/vRAN)
- Correlates core and RAN data into subscriber (IMSI-based) insights
- Sends alarms to indicate RAN performance over time, with recommendations
- Integrates with self-organizing networks (SON)
- Helps reduce trouble ticketing workloads
- Correlates service tickets, network faults, and potential impacts on other subscribers
- Integrating data with other service management systems
- Incorporates AI/ML for capacity forecasting and utilization

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RADCOM RAN Analysis provides engineering with insights into key performance metrics, such as reliability and signaling overhead, saving time performing root cause analysis (RCA) to detect anomalies. It covers a wide range of key performance indicators (KPIs) and key quality indicators (KQIs), from accessibility to handover performance, including performance by cell, IMSI, and neighboring cells, as well as retainability of radio link failures (RLF).

It is vendor-agnostic and can monitor and correlate multiple-vendor RAN feeds and even correlate between them for optimal quality of experience across all RAN sites.

Combining RADCOM AIM

RADCOM RAN Analysis integrates RADCOM AIM which includes artificial intelligence and machine learning (AI/ML) capabilities to smartly analyze and provide real-time automated insights to resolve customer-impacting issues and save engineering resources. These AI-driven capabilities include:

RADCOM AIM-RAN use cases:

- Impact analysis – quantifies and lists the exact impacted users on failure events
- Sleepy cells analysis and identification
- Capacity forecasting and utilization
  - Coverage holes (CH)
  - Ell Edge (CE)
  - Interference (I)
  - Lack of Dominant Cells (LD)

RADCOM (Nasdaq: RDCM) delivers real-time network analysis, troubleshooting, and AI-driven insights to ensure a superior customer experience. Utilizing cutting-edge technologies for over 30 years, we provide dynamic service assurance through the following solutions, including: RADCOM Customer Experience, RADCOM Network Performance, RADCOM Operational Efficiencies, RADCOM Network Troubleshooting, RADCOM Revenue Generation, RADCOM Service Quality and RADCOM Network Tapping.

For more information visit: https://radcom.com/

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