

coRAN LABS



SATORI
SOLUTIONS

RAN Cell Degradation Detection rApp



RAN Cell Degradation Detection rApp

The **RAN Cell Degradation Detection rApp** monitors RAN performance by computing a cell health score (0–100) using PM counter data. It identifies degrading cells early, enabling faster and more effective network optimization.

O-RAN-compliant rApp with standardized R1 service interfaces for seamless integration with multi-vendor SMO platforms.

The Problem

- Large-scale networks generate massive KPI data
- Threshold-based alarms miss gradual degradation
- Multi-KPI issues often go undetected
- Operators lack early visibility into cell performance decline

Solution

coRANLABS RAN Cell Degradation Detection rApp **Evaluates multiple KPIs across 4 categories:**

- Availability
- Performance
- Capacity
- RF Condition



How It Works

- Ingest PM counter data
- Normalize and weight KPIs
- Compute health score per cell
- Apply degradation rules
- Display results via dashboard & APIs

Detection Logic

- Score drop over time
- Sustained low performance
- Multi-KPI degradation
- Detects degradation using multiple scoring and KPI-based rules

Key Benefits

Faster Detection

Quickly identify network issues

Holistic Analysis

Multi-KPI, category-based evaluation

Real-Time Visibility

Unified view of network health

Easy Integration

Works with existing systems. (EIAP, ORAN, 3GPP compliant)



Dashboard & Integration

- Degradation alerts
- KPI trends with anomalies
- Cell-level insights
- Network health view

The **Ericsson Intelligent Automation Platform (EIAP)** provides Service Management and Orchestration (SMO) for Open RAN and further enhances openness, network management, and automation by supporting multi-vendor and multi-technology RAN environments.

EIAP is supported by open interfaces and the industry's leading Software Development Kit (SDK) to enable an ecosystem of developers with all the capabilities needed to innovate, build, validate, share and operate rApps.

