



Secure Your Private LTE Network with Confidence

Comprehensive Device Fingerprinting, Monitoring
& Protection Aligned to NERC CIP Standards





NERC CIP Standard Alignment



Device Fingerprinting, Monitoring & Protection



Secure Your Private LTE Network with Confidence

Purpose-built, standards-aligned security is critical for utilities and critical infrastructure providers adopting Private LTE (PLTE) networks. OneLayer delivers continuous visibility, real-time monitoring, and proactive security for all devices on your PLTE network—ensuring compliance with NERC CIP mandates while safeguarding the grid from evolving cyber threats.

Key Capabilities:

Device Fingerprinting



- Behavioral and protocol-level inspection of PLTE-connected devices
- Unique identification based on hardware, OS, and usage patterns
- Maintains real-time, accurate device inventory

Network Monitoring



- Real-time analytics across control, management, and user planes
- Detects anomalies and unauthorized behavior
- Integrates with SIEM/SOC systems for incident response

Active Threat Mitigation



- Enforces access control and microsegmentation
- Auto-quarantine of rogue or non-compliant devices
- Adaptive policies based on risk scoring



NERC CIP Alignment



NERC CIP Standard	Description	How OneLayer Helps
CIP-002	BES Cyber System Categorization	Ensures accurate classification and inventory via device fingerprinting
CIP-005	Electronic Security Perimeter	Enforces perimeters and isolation for critical systems
CIP-006	Physical Security	Detects unauthorized device connections via LTE
CIP-007	System Security Management	Monitors compliance with security baselines
CIP-008	Incident Reporting & Response	Enables rapid detection and automated containment
CIP-010	Configuration Change Management	Alerts on unauthorized changes
CIP-002	Information Protection	Prevents data exfiltration and enforces encryption policies

Why OneLayer?

Tailored for Critical Infrastructure

Resilient, scalable, and purpose-built for utilities

Zero Trust for PLTE

Enforces granular policy across every LTE connection

Rapid Compliance Readiness

Tools and reports aligned to NERC CIP

Future-Proof Security

AI-driven detection and adaptive response mechanisms



Use Case Snapshot:

Utility PLTE Deployment



Challenge:

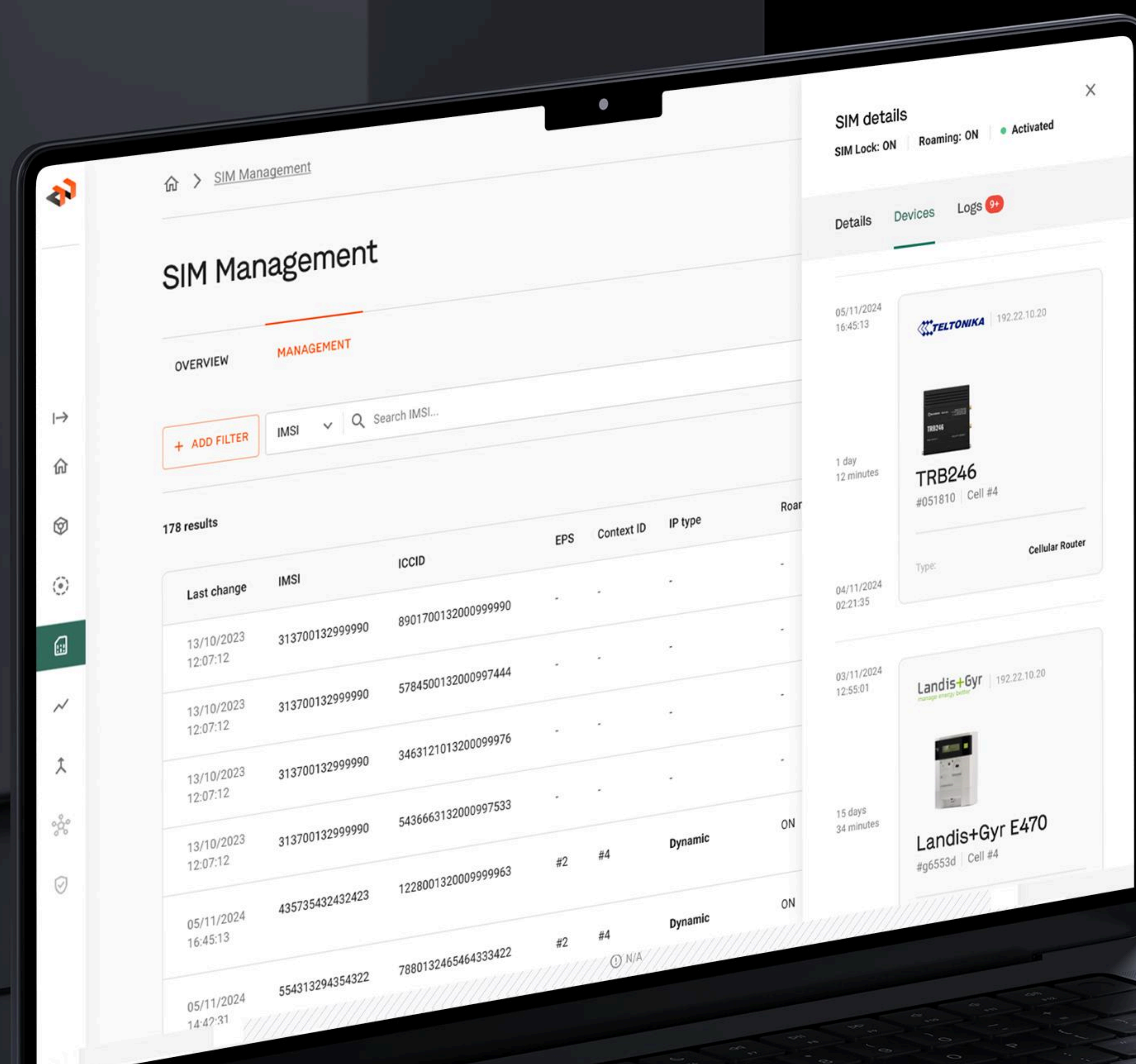
Lack of visibility and security enforcement for thousands of PLTE-connected devices

Solution:

Deploy OneLayer Bridge at PLTE core, enabling dynamic inventory, rogue device detection, and compliance reporting

Result:

Enhanced security posture, reduced audit risk, and increased confidence in LTE infrastructure



Let's Secure Your PLTE Network – Together



Contact our team to schedule a demo today!

Email: info@onelayer.com

Website: www.onelayer.com