



# Achieving Operational Excellence at Scale for Oil & Gas Private LTE/5G Networks

## THE PROMISE

As the oil & gas sector modernizes, both onshore and offshore operational facilities increasingly adopt public and private 5G and LTE cellular networks.

The secure, highly reliable connectivity of these networks promises to enable unprecedented productivity and cost savings, from equipment performance and safety monitoring to connected worker support to automated inspection and maintenance of your rigs.

## The Challenge

But realizing this vast technological potential comes with unique challenges in three areas:



### Asset Management

Optimized network performance is necessary to fulfill the promise of increased productivity and profits. Attaining this level of operations excellence requires a complete, granular picture of device and network connectivity, performance, and quality of service. This visibility is critical both for assessing the network as a whole and in comparing and evaluating the relative efficiency of different IoT devices.



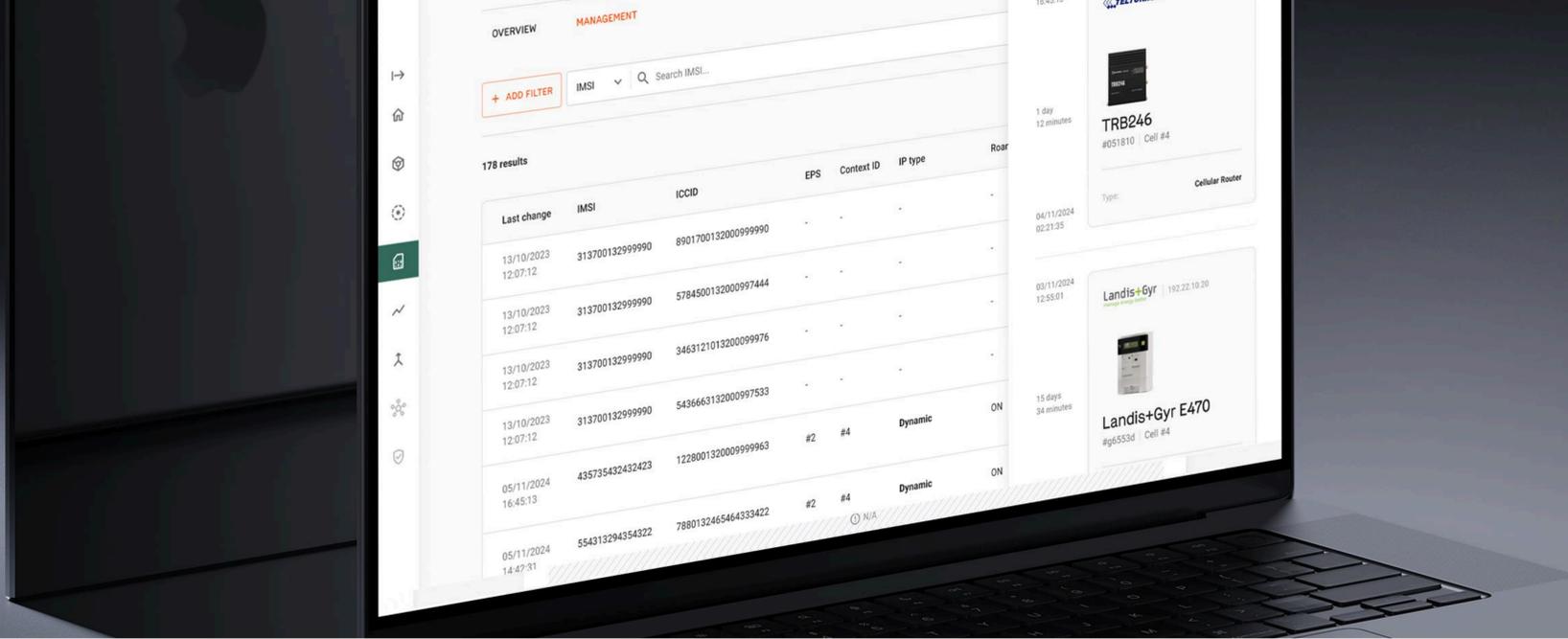
### Device Onboarding

Scaling a private cellular network from innovation pilot to full operations requires the onboarding of thousands of assets. Manual onboarding is a labor intensive process including SIM provisioning, CMDB asset registration, MDM system connection, and SIEM policy setting. Without an automated deployment solution, network scaling can only progress at a crawl.



### Security

Cellular network architecture disrupts the application of the Purdue Model and Zero Trust segmentation. Standard IT/OT network security solutions are unable to identify and govern individual cellular assets, especially those connected to the network through cellular routers. This creates security blind spots and unacceptable risks to critical infrastructure.



## The Solution

The OneLayer Bridge platform provides the critical missing link between the LTE/5G network cellular packet core and the asset management and security solutions used with your IT and OT networks.

OneLayer Bridge covers all your critical operational domains in one intuitive platform:



### Asset Management

OneLayer Bridge provides seamless network visibility that can zoom from network-level birds-eye view to device-level granularity as needed, with all the operational details necessary to pinpoint issues and quickly remediate them. OneLayer Bridge also automatically creates device groups based on shared criteria, streamlining device management and enabling automated unified policy application. This comprehensive classification empowers a deeper understanding of network assets for enhanced control.



### Device Onboarding

OneLayer Bridge eliminates the barriers to scaling your private LTE/5G network by enabling automated device onboarding, SIM provisioning and policy setting. This centralized orchestration provides different teams with operational freedom and flexibility without compromising on security and networking procedures.



### Security

OneLayer Bridge extends your existing IT/OT security frameworks to your private cellular network. Discover, assess and secure every asset connected to your private LTE/5G network, even those behind cellular routers. Easily apply Purdue Model and Zero Trust architecture policies, including visibility, segmentation and anomaly detection.



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