Trilliant

Solution Overview

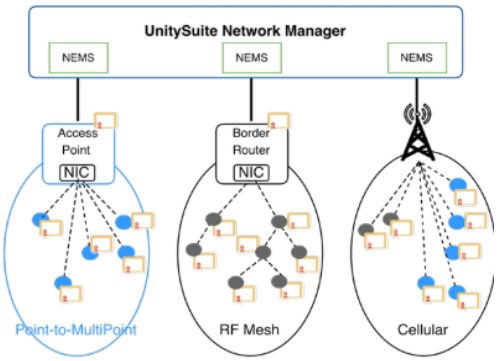
NETWORK MANAGER

Product: UnitySuite Network Manager
A Communications Network Designed as a Core Utility Asset

Application: Network Operations and Communications Performance Assurance

Trilliant UnitySuite Network Manager gives operations teams complete visibility and control over the communication infrastructure that carries metering traffic, across every network technology in the field.

AMI programs succeed or fail on the health of the communication network, yet in many vendor architectures the network is a black box visible only through failed reads. The UnitySuite Network Manager treats the network as a managed asset, exposing throughput, capacity utilization, latency, packet delivery, signal quality, and topology across the entire communications estate, with the tools to provision, configure, secure, and troubleshoot it.



One umbrella over every network technology

The NMS is network agnostic. Point to multipoint wireless, open standards compliant RF mesh, and cellular connectivity are managed per technology under a single umbrella, designed to absorb future network types without architectural change. Gateways, access points, border routers, collectors, and edge devices are managed alongside their networks, with Ethernet, fiber, and cellular APN backhaul. A utility can choose network technology deployment by deployment on merit and operate all of it through one system.

Open to any HES

Network agnosticism extends upward as well as downward. The NMS exposes its capabilities through an API layer that serves not only the UnitySuite AMI Manager but also third-party head end systems, so a utility running another vendor's head end still gains full visibility and control of its network. This deliberate decoupling protects the utility from having its network locked to any single metering vendor.

Full lifecycle management

The management stack covers the complete operational lifecycle. Network management provides real time and historical views of performance and utilization, and provisioning management automates the secure enrolment of new devices and elements. Firmware campaigns for network infrastructure are targeted, paced against available capacity, resumable, and tracked to completion, independently of meter campaigns run from the head end. Topology management maintains a continuously updated map of traffic flow, SLA reporting holds the network to objective commitments, and fault and diagnostics tooling supports root cause analysis when it falls short.

Better metering outcomes

Alongside the UnitySuite AMI Manager, network intelligence directly improves metering results: read schedules respect measured capacity, firmware campaigns pace against actual headroom, and a cluster of missed reads is distinguished as a meter, network, or backhaul problem in minutes. A traditional head end sees the network only through the reads that fail; the UnitySuite Network Manager sees the network itself.

Network and mesh analytics

Infrastructure views present each router and access point with utilization against capacity, health score, throughput, and connected population, so saturated or degrading elements stand out before they affect service. Mesh routing analytics expose routing rank distributions and parent change frequency as early instability indicators, while availability, delivery, event, and capacity analytics complete the picture, letting planners see utilization headroom across the territory.

Security

The NMS carries the platform security model into the network layer. Security management governs credentials, certificates, and cryptographic material across every network element, provisioning enforces secure enrollment, so no device joins without verified identity, and firmware delivered to network infrastructure is signed and verified before installation. Access to the NMS itself is governed by centralized identity with single sign on, multi-factor authentication, role-based access control, and full audit logging, with management traffic protected by TLS 1.3. Tenant scoped roles and isolated data domains extend into network operations, so shared infrastructure carries no shared risk.

Standards and interoperability

Layer	Standards	Purpose
Field networks	Standards based RF Mesh, IPv6 technologies, cellular	Heterogeneous network technologies under a single management umbrella
Northbound integration	Standards based API layer	Serves the UnitySuite AMI Manager and third-party head end systems alike
Security	TLS 1.3, certificate and credential lifecycle management	Protection of management traffic and network element authentication

Advantages:

- **Network agnostic**
  Wireless, RF mesh, and cellular on one platform.
- **Full lifecycle**
  Provision, update, secure, and monitor networks.
- **Mesh analytics**
  Identify instability before service degrades.
- **Secure & open**
  Strong security with open system integration.
- **Capacity planning**
  Optimize growth with real utilization data.
- **Faster resolution**
  Pinpoint faults before truck rolls.

DISCOVER THE *Power Of Choice*

The **Power of Choice** gives utilities the freedom to select the devices, communications technologies, applications, and deployment path that best fit their operational needs without being forced into a single technology approach.

Questions, comments: info@trilliant.com

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