



The Newly-Enhanced SecureMesh™ Platform: One Powerful Platform for All Your Smart Grid and Smart City Applications.

SOLUTION BRIEF

Trilliant helps utilities and energy retailers successfully deploy a broad range of smart grid initiatives – from smart metering to smart distribution and smart consumer capabilities. The breadth and depth of the Trilliant Communications Platform delivers the flexible and proven smart grid solutions needed for utilities and energy retailers to deploy mission-critical applications to achieve their business goals and deliver consumers the best energy experience possible.

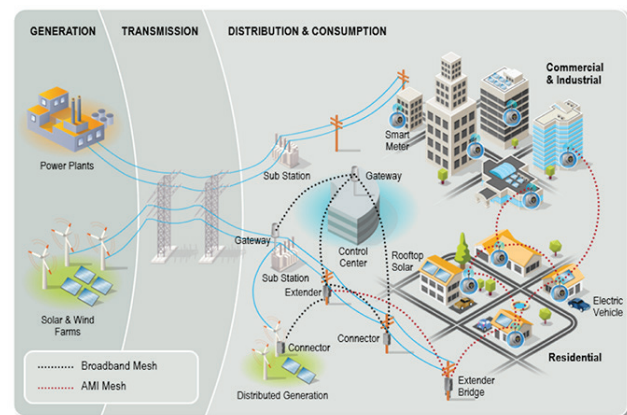
Building upon the company's proven technology and expertise having worked with leading utilities around the world who collectively serve more than 85 million customers, Trilliant aims to bring even more reliability, performance and flexibility to utilities and energy retailers globally, with its newly-enhanced SecureMesh Platform. Part of the powerful Trilliant Communications Platform, SecureMesh is a secure, multi-tier NAN/WAN communications platform, pre-engineered to work seamlessly together and purpose-built for utility's smart grid applications. High bandwidth and low latency provide the high reliability and superior performance necessary to enable utilities to successfully deploy any smart grid application – Distribution Automation, Smart Metering, Demand Side Management – on one powerful platform, today and tomorrow.

Trilliant understands that a particular utility's smart grid business needs may differ from those of other utilities. For example, some utilities may seek to satisfy regulatory mandates while improving reliability and operational efficiencies. Others may seek to empower consumers to improve energy efficiency and offer value-added services. Still others may seek to integrate more intermittent renewables and distributed energy resources or be able to reduce non-technical losses. The newly-enhanced SecureMesh Platform offers utilities the widest range of options and flexibility to strategically and cost-effectively address today's smart grid challenges while preparing for tomorrow's smart grid opportunities.

The newly-enhanced SecureMesh Platform uniquely addresses utility communication needs cost-effectively:

Utility-Grade Reliability

- Trilliant's SecureMesh Platform is built on the company's award-winning mesh technology, which is inherently redundant and provides utilities with the highest degree of reliability.
- By maintaining multiple routing links to each node, the newly-enhanced SecureMesh is capable of rapid reconfiguration in response to dynamic conditions or network updates. Each node's data has the capability to be routed to multiple takeout points. This concept of multiple "hot-links" creates a network capable of maintaining continuous communications.



Multi-tier Broadband (WAN) and AMI (NAN) Mesh Platform

- Every node in the newly-enhanced mesh utilizes frequency hopping and scheduled transmission technology to resist or work around RF interference, creating a network capable of operating reliably even in the most adverse conditions.
- The addition of improved RF sensitivity and advanced adaptive modulation technique in the newly-enhanced mesh increase both the reliability of each node-to-node communication and the overall network coverage.

Multi-Tier Mesh Network Offering Utilities Industry-Leading Performance

- The newly-enhanced SecureMesh is the industry's only integrated, multi-tier mesh communications network, offering utilities industry-leading performance required for their smart grid applications:
 - 2.4 GHz SecureMesh NAN operating in the globally-available 2.4 GHz spectrum delivers even more superior performance by offering peak data rates of 800 Kbps and optimized use of the 80 MHz of available bandwidth to maximize capacity and throughput.
 - 5.8 GHz SecureMesh WAN offering utility customers a 54 Mbps backbone network capable of supporting Smart



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Metering, Distribution Automation and other advanced Smart Grid applications. This high bandwidth comes with very low 7 millisecond latency required for advanced Distribution Automation applications.

- The integrated multi-tier newly-enhanced SecureMesh NAN/WAN platform gives utilities the ability to manage NAN/WAN deployments on a single platform and the flexibility to meet different performance standards/service levels for a multitude of Smart Grid applications in one powerful platform.

Gives Utilities an Integrated, End-to-End Security

- The newly-enhanced, multi-tier SecureMesh NAN/WAN offers the highest level of security and data privacy for every device on the network and meets the stringent regulations of leading industry-governing bodies worldwide.
- The newly-enhanced SecureMesh utilizes industry-standard protocols at the link, network, and application layers to create an environment that secures individual devices, groups of devices, and separate application domains operating on a single network.
- The newly-enhanced SecureMesh offers a comprehensive solution that ensures not only confidentiality and data privacy, but also network and device integrity, and non-repudiation of critical configuration and commands.
- The newly-enhanced SecureMesh utilizes industry-standard Public Key Infrastructure (PKI) and Virtual Private Network (VPN) methods to deliver a proven security solution.

Provides Utilities with Even More Flexibility and Choice of Any Field Device

- With the newly-enhanced SecureMesh, utilities have even more freedom of device choice for all the communications-enabled devices on their network.

- Trilliant works with partners through its Open Smart Device Interface (OSDI) program to provide SecureMesh communications technology that can be seamlessly integrated into any kind of device – utility smart meters, distribution automation devices, even field support tools.
- Backed by a capable team with years of utility meter and device integration experience, Trilliant's OSDI program creates an easy and cost-effective way for manufacturers to support SecureMesh on their devices.
- By supporting standard meter and industrial control system protocols, the OSDI program is “device agnostic” and “application aware,” providing the widest variety of devices possible to utilities.

Gives Utilities a Future-Proof Architecture and Device-Level Intelligence

- The newly-enhanced SecureMesh Platform is architected to support any Smart Grid, Smart City and Internet of Things (IoT) applications, today and tomorrow.
- Every node of the newly-enhanced SecureMesh is capable of edge intelligence with the computing power and memory to support application customization across the network.
- Partitioning of application domains allows multiple applications to be supported, each with their own independent security and QoS requirements.
- The newly-enhanced SecureMesh Platform's scalability ensures performance and reliability with millions of devices on the network.

Proven with leading utilities worldwide, the newly-enhanced SecureMesh Platform is a smart investment for utilities that must make prudent decisions today while keeping an eye on future smart grid opportunities. The Trilliant SecureMesh Platform will allow utilities to eventually manage all Smart Grid, Smart City, and Internet of Things applications on a single, unified network.



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