

Demand Response Solutions



Trilliant Demand Response Solution allows you to reduce or shift peak demand load.

- Two-way communication with superior advantages over the one-way paging system
- Improved connectivity rate (99%) ensuring more participants are reached for each event
- Improved detection rate of the failed Load Control
- Sensor level intelligence with improved cycling capability controlling HVAC
- Post event analysis such as a load drop
- Improved customer satisfaction and participation data for predictive modeling
- Improved visibility and balance between power generation (renewables) and consumption
- Reduced operation cost with visibility to device failure, improved reliability and reduced unnecessary truck rolls

To be effective, demand response implementations must enable utilities to lower peak demand when needed. By lowering peak demand, utilities can postpone capital investments in generation capacity and reduce the need to purchase energy at peak prices. As consumers become more aware of their energy consumption habits, they will have the knowledge to act to lower their consumption regardless of motivation be it economic or environmental.

We provide an end to end solutions and services to enable utilities and consumers to take advantage of Demand Response programs. From enabling consumer behavioral demand response and load control, to Demand Response using energy management tools for residential & large commercial and industrial (C&I) customers.

Behavior based demand response is achieved through customers understanding their energy consumption patterns and the effect it has on their energy costs. Targeted demand response refers to shedding load by reducing load to targeted areas such as industrial parks, large businesses, transformer feeders or even by zip code within the network.

EXPERIENCE YOU CAN COUNT ON

The next generation of smart grid and smart cities solutions must be built on an open and secure network that allows frictionless exchange of data and we believe that our architecture will propel the energy industry to a bright future with an integrated solution that is flexible, standards based, scalable and connected. Our advanced technologies, designed to work with virtually any system, provide a secure, powerful source of connectivity and data now and for generations to come.

At Trilliant, we make our customers future-ready through innovative software and communications solutions.

WE EMPOWER YOU - BY CONNECTING THE WORLD OF THINGS®



TECHNOLOGY AT A GLANCE

As the industry continues the aggressive growth trajectory to a brighter future, we are here to help you manage your communications needs. We work with you to understand your challenges and deliver solutions that meet your needs for today and tomorrow.

Analytics

- Our UnitySuite Business Intelligence platform provides you a fully customizable software suite that provides a single pane viewing of your data, your way.

Advanced Metering Infrastructure

- We provide the most adaptive and flexible Advanced Meter Infrastructure solution that delivers the functions and data needed to meet your specific vision for today and tomorrow.

Distribution Automation

- Our solution brings enhancements to a network which has historically functioned autonomously by responding to local signals and conditions without operations center involvement. DA applications can include remote monitoring and control of components in the substation (substation automation), components on feeders (feeder automation), and components at customer sites (meter automation).

Our networking technology, software, services, and unique partner ecosystem unlock the potential for you to make a better life for your customers through instantaneous information. We believe that you are the custodians of critical information and will not constrain how you use your data today or in the future.

Our SecureMesh® platform, developed specifically for smart grid applications, is a secure, multi-tier NAN/WAN communications platform, per-engineered to work seamlessly together. Featuring high bandwidth and low latency, this solution provides highly reliable, future-proof, superior performance necessary to support smart grid applications – distribution automation, smart metering, demand side management – all on one powerful platform.

- **Cellular:** Our communications hub solution is a communications platform that connects to the Trilliant UnitySuite® Head-End Software (HES) using public wireless networks to create a secure communications link to electric and gas meters. When deployed with in-home displays and other in-home energy management products, this hub creates the consumer engagement side of a smart meter deployment.
- **SecureMesh® Narrow Area Network:** Our SecureMesh NAN is a standards-based, high-bandwidth wireless AMI technology that provides you a secure, scalable solution. Featuring adaptive mesh technology, the meters autonomously report to the NAN access point and then polled by the head end system, via the WAN, which enables scalability. We chose a standard 2.4 GHz radio as the core to ensure you have both the protection of a standards-based solution with the operational benefits of a high-data rate solution.
- **SecureMesh® Wide Area Network:** Our SecureMesh WAN is a broadband mesh network built specifically for the Industrial Internet of Things (IIoT) that provides reliability, bandwidth and low latency necessary for advanced applications such as street lights, video surveillance, AMI, and smart city deployments. SecureMesh WAN is based on standard 802.11 chipset that provides high-bandwidth wireless IIoT technology featuring adaptive mesh technology.
- **Trilliant RPMA®:** Our Random Phase Multiple Access solution is designed from the ground up as a low data rate / high capacity network that provides you deep, wide area coverage. Featuring Star based network topology, this private network offers point-to-multipoint technology capable of supporting a true opt-in deployment strategy. The high network capacity is achieved through access point's ability to support up to 1200 simultaneous endpoint connections. Our solution offers extreme coverage and capacity while still providing the stringent security that you've come to expect with a Trilliant solution. Due to the extreme coverage, and capacity an RPMA solution has a low network planning and deployment cost, and a very low ongoing operational cost.
- **Software:** A secure management platform that acts as a control pane for all device interactions. It provides scalable management of multiple smart grid communications technologies with unified business process integration to other utility systems.



Trilliant

401 Harrison Oaks Blvd, Suite 300
Cary, NC 27513
www.trilliant.com

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