



Energy Management & Control

Addressing Today's Needs
and Planning for Tomorrow



CalAmp Energy Management & Control is designed for utilities that wish to convert their existing load-control assets into a more cost-effective, reliable, and powerful load-control and analytics solution. This solution dramatically improves upon traditional load-control models by leveraging existing infrastructure, and layering in modern cellular-based, two-way load-control switches with a powerful forecasting, analytics and control module. CalAmp also utilizes its proven COLT network and device management platform which is widely adopted at electric utilities today. As a result, utility operators can deploy and manage a broad portfolio of load reduction programs via a single, affordable networked solution.

The Challenge: Legacy Load Control Systems

Deploying and managing executive load-control programs present significant challenges for utility operations teams today. Despite a chronic lack of visibility from one-way paging devices, lack of M&V data and proprietary formats, operators must determine when load-control events are needed, and accurately predict which programs will provide the desired level of reduction. In many cases, over 30% of devices in the field do not provide load reduction, but the utility is unable to determine which ones are functional without rolling a truck to each one.

The Solution: CalAmp's Energy Management & Control

CalAmp's Energy Management & Control eliminates the challenges common to proprietary load-control systems by providing a single point of analysis and control for better demand forecasting and rapid event response. The solution includes everything a utility needs to deploy an executive load-control program, leveraging existing assets while providing a future-proof path forward. Core components include:

Management Center: The command-and-control center provides utilities complete load control. Utilities can create, test, execute and fine-tune load-management programs.

Analytics: The analytics solution improves decision making by unifying information from data sources, devices and applications across a utility's footprint to provide performance insight and advanced forecasting. Utilities can reduce costs, and quantify the impact of energy management programs.

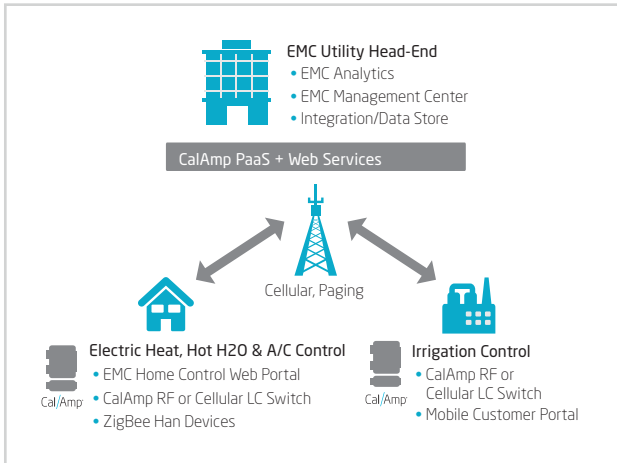
CalAmp's On-Line Telemetric Platform, or COLT: A software platform designed for telemetric and telematics applications; provides the framework and network architecture for integrating applications as well as connecting, coordinating and managing any number of communications devices. The platform is easily replicated across multiple servers, allowing the system to support networks with just a handful of devices or networks with millions of devices.

Energy Gateways:

The CalAmp Energy Gateway mounts to the outside of the customer's home, providing a communications Gateway and allowing control of multiple loads, such as air conditioning, water heaters or pool pumps. In addition to controlling Direct Loads, the CalAmp Energy Gateway supports communications with Zigbee enabled devices on the Home Area Network, such as Smart Thermostats. The solution also supports: Paging, Cellular and Broadband communications options allowing the Gateway to fit a variety of utility applications.

Home Control:

A secure, web-based, home energy management application that allows consumers to manage their usage; select utility rates and demand side management programs; and automate control of energy in their homes.



CalAmp Delivers

Comprehensive Load Control: A single solution for unified control across a diverse set of demand response solutions.

Protection of Existing Assets: Provides a complete demand side management solution for utilities looking to migrate away from older, larger-scale load control deployments, while utilizing superior technology at a lower cost.

Event Control: Improved ability to shape and shift load through a dashboard that results in operational efficiencies, cost savings and improved reliability.

Superior Visibility, Flexibility and Insight: A centralized dashboard for demand response events; enables scheduling and initiation of events to better manage demand.

Improved M&V: Provides two-way communication capability to identify which devices are responding remotely and what level of load reduction is achieved.

Forecasting & Analytics: Unified point of analysis with the ability to forecast events utilizing THI, identify available system load and target a subset of customers when executing an event.

Increases Customer Satisfaction: Provides numerous notification, messaging, and opt-in/out features.

About CalAmp

CalAmp (NASDAQ: CAMP) is a telematics pioneer leading transformation in a global connected economy. We help reinvent businesses and improve lives around the globe with technology solutions that streamline complex IoT deployments and bring intelligence to the edge. Our software applications, scalable cloud services, and intelligent devices collect and assess business-critical data from mobile assets, cargo, companies, cities and people. We call this The New How, powering autonomous IoT interaction, facilitating efficient decision making, optimizing resource utilization, and improving road safety. CalAmp is headquartered in Irvine, California and has been publicly traded since 1983. LoJack is a wholly owned subsidiary of CalAmp. For more information, visit calamp.com, or LinkedIn, Twitter, YouTube or CalAmp Blog.

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Cal/Amp®

CalAmp
15635 Alton Parkway, Ste 250
Irvine, CA 92618
Tel: 888.3CALAMP
calamp.com