



# Load Control



## Design and execute Load Control events more effectively.

For energy service providers, Load Control is an essential activity to assist in meeting reliability goals. Load Control is an economic and regulatory favorable solution with less environmental and societal impact. Utilities use load control to better manage the power grid against disruptions caused by heat waves, severe cold, or transient physical challenges. Energy service providers can also utilize Load Control to reduce energy costs by avoiding the need to acquire supplemental energy at higher market rates.

The Tendril Load Control application, together with Tendril's in-home home devices, enables energy service providers to design and execute effective Load Control events. The application delivers features and functionality including:

- **Utility Load Control User Interface**

With the Tendril Load Control application, energy service providers get a rich interface for defining and executing Load Control events. The interface enables users to:

- Select targeted consumers or groups of consumers, and the specific devices or applications within the consumer's residence
- Schedule events for a future start date and time, or immediately in the event of an emergency
- Control and configure settings in smart devices, such as the Tendril Set Point thermostat
- Select consumer residences based on utility-defined categories such as pricing program, substation, or distribution transformer

- **Open Standard Application Program Interfaces**

Tendril provides application program interfaces (APIs) that allow third-party development/system integration with other Demand Response-oriented systems. These APIs are based on open standards such as OpenADR and the IEC Common Information Model (IEC CIM.)

- **Applications and Services Platform**

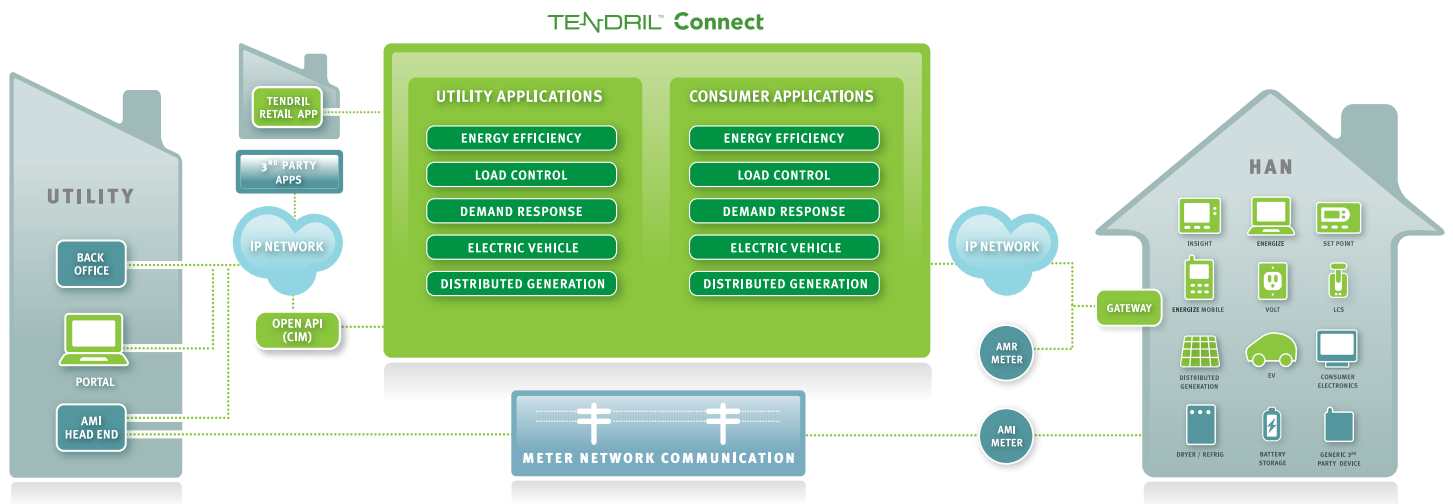
Tendril's application and services platform manages the event lifecycle and consumer device participation.

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“UTILITIES USE LOAD CONTROL TO BETTER MANAGE THE POWER GRID AGAINST DISRUPTIONS CAUSED BY HEAT WAVES, SEVERE COLD, OR PHYSICAL CHALLENGES THAT ARISE.”

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## • Communications Channels

The Tendril Load Control application can connect the energy service provider to the consumer through one of two communications channels—an Internet Protocol (IP)-based consumer broadband network or the utility’s AMI meter network.

- The Tendril IP solution utilizes the Internet to provide two-way Load Control communication directly between consumers’ devices and the Tendril applications and services platform
- For utilities that prefer to utilize the AMI meter network, the Tendril system can provide the Load Control directives to the meter network and receive device participation information (as supported by the meter network)

## Shed load by device in the Home Area Network (HAN).

Tendril’s Load Control in-home devices include the Tendril Set Point thermostat, the Tendril Load Control Switch and the Tendril Volt outlet. All three products are capable of receiving, storing, and automating Load Control commands. As a result, these devices manage energy consumption for the period of time as defined within the Load Control event. These Load Control devices are also capable of reporting back the status of their participation within an event, and can support events defined to be “optional” or “mandatory”.

## View events online.

Consumers can be notified of Load Control events through the Tendril Energize portal. This allows for better communication between the energy service provider and the consumer.

## About Tendril.

Tendril provides the cloud platform for the energy industry, delivering end-to-end consumer engagement products, applications and services powered by Tendril Connect™—an open, secure and scalable platform that takes the complexity out of the Energy Internet and creates a dialogue between energy service providers and their customers. Delivering consumer engagement software, in-home products and applications as well as easy to integrate utility solutions such as Demand Response and Energy Efficiency, Tendril offers unparalleled insight into energy decisions, making the Energy Marketplace a reality.

Tendril Connect™ is the proven energy management platform that enables unprecedented insight, choice, and control. This open standards-based, end-to-end technology enables energy service providers and their customers the ability to deploy and take advantage of tomorrow’s Smart Energy solutions, today. Energy service providers and their consumers are empowered with data and analytics about energy consumption, helping to drive down costs, lower environmental impact and realize operational efficiencies.

### For more information

Contact Tendril today.  
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