

Demand Response

The Avi-on system is fully demand response ready, and can be easily connected to a range of utility demand response program signals via a variety of standard mechanisms. With appropriate Avi-on hardware, it is even possible to measure the energy savings in real time and for specific program intervals.

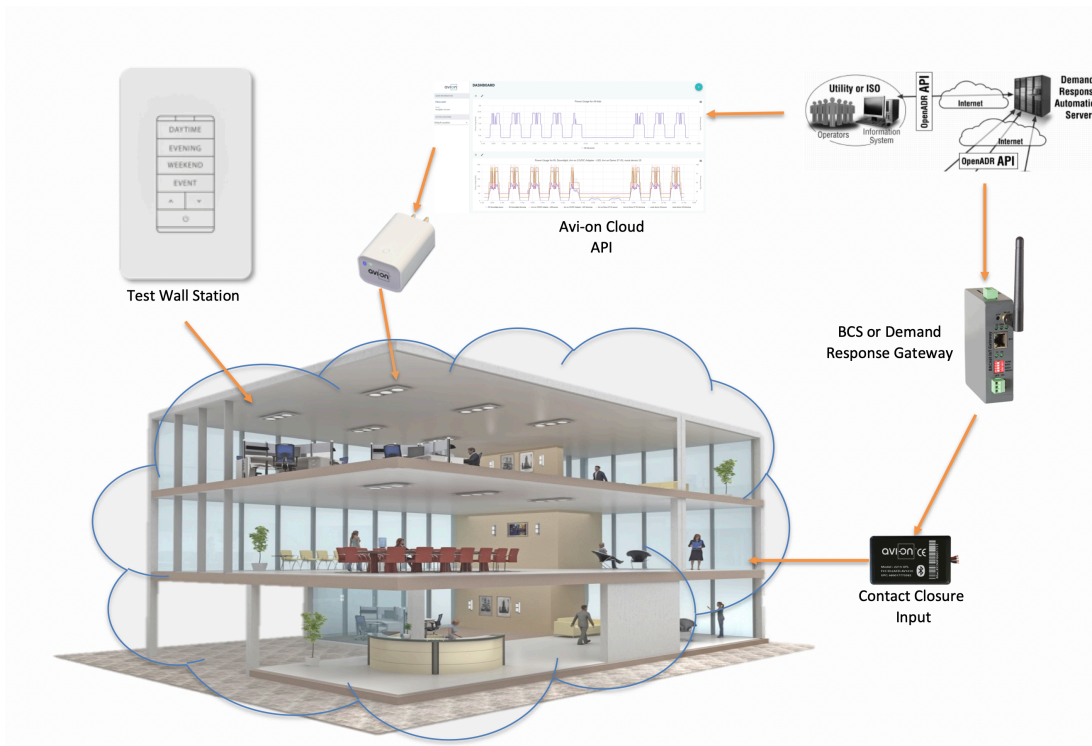


Figure 1. Demand Response Diagram

Demand Response Scenarios

It is easy to program a range of demand response scenarios into the system for triggering by external building control or utility web based signals. There are several means of creating demand reduction scenarios:

- Easily build a zone comprised of fixtures that are to be dimmed or turned off during the demand response event for the whole building
- Set up demand response schedules that can run when triggered during specific program time windows
- Execute "on demand" reductions to specific dimming levels based on utility trigger signals
- Mix dimming and on/off of different fixture zones in single combined events
- Reduce output by specific percentages (requires modest site specific configuration)
- Real time or scheduled response to utility event triggers

Demand Response Triggers

Demand response events can be triggered (or cancelled) by several means:

- Contact closure input from any device, such as a field server provided by a demand response provider
- Connection to a building control system that is already set up for demand response. Connect via contact closure or web based connection to BACNet or other building control interfaces (requires on site Field Server to interface with the building control system)
- Direct connection from the Avi-on WEB API to the utility demand response system (requires modest project specific configuration and the Remote Access Bridge)
- Available wall station preset for testing demand response locally and Remote Access Bridge for internet connectivity establishes the local building is “demand response ready”

Program Compliance

- CA Title 24 “Demand Response Ready”
- Supports NEISO, NYISO, PJM, MISO and other ISO load control requirements with appropriate integration to utility or third party demand response providers
- Measured energy consumption in 15 minute intervals available during and after the demand response event with Avi-on Internal or External Fixture Adaptors and Zone Power Packs

To order please contact Avi-on sales at
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for information on becoming an Avi-on partner and order details.



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