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OIR-19-01 Module Identification Number

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Module Identification Number (MIN) should be used to ensure a flexible load/generator exists, load/generator state can be determined, and load/generator can provide control handshake.

The MIN could be a URL with a query string.

Load state can be negative value indicating how much power the load is consuming (sink), positive value indicating how much power is be generated (source), or zero value indicating a standby state. A request for state that is not replied to within timeout means the load/generator is not available for control.

A control module would be capable of calling and refreshing a control host URL that would supply commands the load/generator is requested to follow. The control module would call that same URL with a query string containing current state and other information as necessary. The control host would reply to the URL request from control module if necessary to cancel the control request. When the control module is under the control of the control host, the control module would send requests periodically to ensure the current requested state should continue or to indication the owner of the load/generator has overridden the request.

The load control module could control and report state of multiple loads. This would remove any need for smart meter data or approval of the electric utility for use of data or demand response method.

The control module could communicate with the control host over the internet directly or through a command gateway connected to the internet.

The command gateway could use sound (think R2D2), infrared (like TV remote), radio (FCC part 15), or hardwired connections (Dallas 1-Wire) to talk and listen to load/generator.

Electric utilities wishing to increase the use of renewable energy could offer customers a reduced rate if more renewable energy is available than can be used. That rate could be published as a URL (like <https://wwmpd.com/e-iq/e posi/smud/1-r-tod/rt02/index.htm>) that their customers could read and respond to, or a professional service firm could use to offer value added services to the customer, utility, or balancing authority.

Balancing authorities could offer incentives to customers in their balancing authority

area to allow control of customer owned distributed generation and loads by the balancing authority.

A single standard is not required to start use of this method. The control host URL could contain all information to setup and later revise the control method, think code changes on a rover on Mars. Watch dog timers or other methods would ensure no touch recovery of control modules. Rapid development can be achieved because the system is very flexible and hardware costs are low. Implementations could be contained in circuit breakers, light switches, outlet strips, smart speakers, thermostats, and more.

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