



Thermostat Event API Interface Specification

Overview

Pelican Wireless Systems provides an open, standards based real-time interface to all of the management features of their Internet Programmable Thermostats and Power Control Modules. For a complete description of the interface, refer the the Pelican Climate Control API Specification. This document details the additional attributes provided for managing Thermostat Events.

Pelican thermostats allow one-time events to override the standard recurring schedule. This interface allows events to be added, modified, or deleted. In addition, existing pending events can be retrieved. If an event is added through the API it is tracked as an “External” event. There is no restriction on the number of events that can be added. Adding overlapping events should be avoided since they may produce unexpected results. Also, events cannot cross day boundaries. For events that need to cross day boundaries multiple events should be created.

The “editable” attribute can be set to “Yes” or “No” for an External event (default=No). When set to “Yes” the event can be edited by users of the Pelican Site Manager App. When set to “No” the event can only be viewed through the site manger but not edited or deleted.

When retrieving events with a “get” request only current or pending events will be returned. Historical events are not retrievable through the API.

Object Attribute

The currently supported object type is “ThermostatEvent”. Attribute names are not case sensitive. Attribute values are case sensitive.

ThermostatEvent - Object Attributes

Name	Values	Set	Description
name	String	N	The configured name of the thermostat.
serialNo	String	N	The thermostat serial number.
eventId	String	Y	The unique ID of this event (See Note 1).
title	String	Y	A descriptive label for the event.
startDate	String	Y	The date of the event in ISO 8601 format.
startTime	String	Y	The time of day ISO 8601 extended local time format.
endTime	String	Y	The time of day ISO 8601 extended local time format.
system	Auto, Heat, Cool, Off	Y	The system mode.
heatSetting	Integer	Y	The heat setting.
coolSetting	Integer	Y	The cool setting.
fan	Auto, On	Y	The fan setting.
keypad	On, Off	Y	The keypad setting.
optimumStart	On,Off	Y	Whether to use Optimum Start for this event.



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editable	Yes, No	Y	Whether users can the edit event through Schedule Dashboard.
origin	Internal, External,All	N	How the event was created (See Note 2)
delete	Yes	Y	Delete the specified event entry.

Event ID (Note 1) – unique identifier for the event.

The eventId can either be system generated or user provided. When a new event is added, if this attribute is not provided, the system will generate a unique eventId and return it's value in the reply.

Existing events can be modified or deleted by including the eventId in the request. To delete an existing event, the eventId must be specified in the select item and the value must be set to "delete=Yes".

When an eventId is provided and it matches an existing eventId, the attributes provided in the request will be changed to the newly specified values.

Origin (Note 2) – whether the event was created through the API.

When used during a get request as a select attribute this will filter which events are returned. The default is "External". This can also be requested in the value list to determine the origin of the event.

Only "External" events can be created from the API. Both Internal and External events can be modified or deleted through the API.