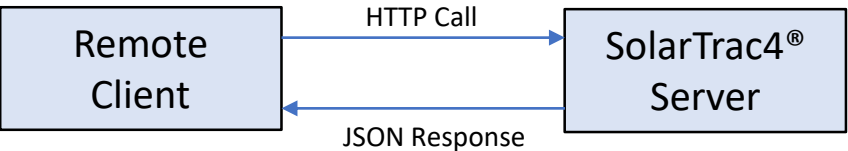
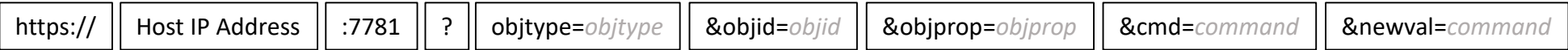


SolarTrac4® API Guide

Access to SolarTrac4 API functions is by http call.



Call Structure:



Parameters

objtypes	objprop	cmd
=====	=====	=====
building	status	read
floor	pos	set
zone	mode	
motor	Config	
sensor	value	

Response Format: Responses to http calls are in JSON format

Call Examples

To move a shade with id 17 to position 3: <http://localhost:7781/?objtype=motor&objid=17&objprop=pos&cmd=set&newval=3>
 To move a zone with id 103 to position 1: <http://localhost:7781/?objtype=zone&objid=103&objprop=pos&cmd=set&newval=1>

command	object	objectid	obj property	value	response	comment
read	solartrac		version		version of each module	
read	building	nnn	objects		floor list	
read	global		status	night, clear, cloud	skytype, sunrise, sunset, solaz, solalt	
set	global		skytype	clear, cloud	message confirmation	force sky type
read	alerts		status		list of all open alerts/notifications	
read	scheduler		events		list all scheduled events	
read	floor	nnn	objects		zone list, sensor list, interface list	
read	zone	nnn	status		current position, current mode	
set	zone	nnn	position	0-31, auto	message confirmation	
set	zone	nnn	mode	maint_on/maint_off/inhin_on/inhib_off	message confirmation	
read	zone	nnn	objects		motor list	
read	zone	nnn	config		zone configuration settings	
set	zone	nnn	solpen			
set	zone	nnn	sleeptime			
read	motor	nnn	status		current position, current mode	
set	motor	nnn	position	0-31, auto	message confirmation	
set	motor	nnn	mode	maint_on/maint_off/inhin_on/inhib_off	message confirmation	
read	motor	nnn	config		zone configuration settings	
read	sensor	nnn	status		current value	
set	sensor	nnn	value	0-65,000	message confirmation	virtual sensor

Zone Status Query

call

<http://192.168.1.200:7781?objtype=zone&objid=2&objprop=status&cmd=read>

response

```
{  
  "message": {  
    "objtype": "zone",  
    "objid": "2",  
    "cmd": "read",  
    "objprop": "status",  
    "timeposted": "2020-03-04 16:29:49"  
  },  
  "data": {  
    "name": "Zone 01-02 DC",  
    "mode": "SUClear",  
    "current position": "4"  
  }  
}
```

Zone Position Query

call

<http://192.168.1.200:7781?objtype=zone&objid=3&objprop=pos&cmd=read>

response

```
{  
  "message": {  
    "objtype": "zone",  
    "objid": "3",  
    "cmd": "read",  
    "objprop": "pos",  
    "timeposted": "2020-03-04 17:11:40"  
  },  
  "data": {  
    "name": "Zone 01-03",  
    "current position": "0"  
  }  
}
```

Zone Mode Query

call

<http://192.168.1.200:7781?objtype=zone&objid=3&objprop=mode&cmd=read>

response

```
{
  "message": {
    "objtype": "zone",
    "objid": "3",
    "cmd": "read",
    "objprop": "mode",
    "timeposted": "2020-03-04 17:09:38"
  },
  "data": {
    "name": "Zone 01-03",
    "current mode": "SUClear"
  }
}
```

Zone Mode Override

call

http://192.168.1.200:7781?objtype=zone&objid=3&objprop=mode&cmd=set&newval=maint_on

response

```
{  
  "message": {  
    "objtype": "zone",  
    "objid": "3",  
    "cmd": "set",  
    "objprop": "mode",  
    "timeposted": "2020-03-04 17:13:08"  
  },  
  "data": {  
    "current mode": "0",  
    "set mode": "maint_on"  
  }  
}
```

zone mode values =====
maint_on
maint_off
inhib_on
inhib_off

Zone Position Override

call

<http://192.168.1.200:7781?objtype=zone&objid=3&objprop=pos&cmd=set&newval=1>

response

```
{  
  "message": {  
    "objtype": "zone",  
    "objid": "3",  
    "cmd": "set",  
    "objprop": "pos",  
    "timeposted": "2020-03-04 16:55:31"  
  },  
  "data": {  
    "name": "Zone 01-03",  
    "current position": "0",  
    "set position": "1"  
  }  
}
```


Motor Status Query

call

<http://192.168.1.200:7781?objtype=motor&objid=101&objprop=status&cmd=read>

response

```
{
  "message": {
    "objtype": "motor",
    "objid": "101",
    "cmd": "read",
    "objprop": "status",
    "timeposted": "2020-03-04 16:39:09"
  },
  "data": {},
  "data": [
    {
      "name": "Zone 01-02 DC",
      "current mode": "UNKNOWN",
      "current position": "-1",
      "scheduled mode": "CLEAR",
      "scheduled position": "5"
    }
  ]
}
```

Motor Position Override

call

<http://192.168.1.200:7781?objtype=motor&objid=101&objprop=pos&cmd=set&newval=3>

response

```
{
  "message": {
    "objtype": "motor",
    "objid": "101",
    "cmd": "set",
    "objprop": "pos",
    "timeposted": "2020-03-04 17:02:56"
  },
  "data": {
    "name": "EV 0325",
    "current position": "-1",
    "set position": "3"
  }
}
```

Sensor Status Query

call

<http://192.168.1.200:7781?objtype=sensor&objid=1&objprop=status&cmd=read>

response

```
{
  "message": {
    "objtype": "sensor",
    "objid": "1",
    "cmd": "read",
    "objprop": "status",
    "timeposted": "2020-03-04 17:24:44"
  },
  "data": {
    "name": "Radiometer W Matrix"
    "location": "roof"
    "current value": "27621"
    "units": "LUX"
  }
}
```