

# Application Note – SolarEdge Monitoring Platform – API Update

## Contents

Application Note – SolarEdge Monitoring Platform – API Update.....	1
Introduction .....	1
API Changes.....	1
Sandbox Service API.....	2

## Introduction

An update of the SolarEdge Monitoring Platform API is set for release in 4Q2020. The release is characterized by:

- Introduction of the **Impact** value in alert notifications. The Impact value will be used in place of the **Severity** value, which has been deprecated.
- Introduction of the Sandbox Service API, which allows you to test your monitoring code on a simulated data repository before going “live” on production data.

The complete Monitoring API can be accessed at: [https://www.solaredge.com/sites/default/files/se\\_monitoring\\_api.pdf](https://www.solaredge.com/sites/default/files/se_monitoring_api.pdf)

## API Changes

### Alert Notifications - New Field: Impact

The **Impact** field in alert notifications helps the installer focus on the most critical alerts.

The Impact value, which contains a numerical value, represents the degree to which the energy production capabilities of the site have been impaired due to the malfunction described in the **Alert Type** field. Alerts with a higher impact value potentially cause greater losses than the alerts with a low impact value.

The **impact** field replaces the **severityCode** field, which has been deprecated.

### Site List Method

#### Request

In the **sortProperty** parameter, the **MaxImpact** option replaces the **MaxSeverity** option, which has been deprecated.

#### Response

For each site in the response, the **highestImpact** field replaces the **alertSeverity** field, which has been deprecated.

### Site Details Method

#### Response

The **highestImpact** field replaces the **alertSeverity** field, which has been deprecated.

## Sandbox Service API

You can use the Sandbox Service API to test your monitoring code on a simulated data repository of 19 sites, numbered 1-19, to access the repository, access the following URL using your browser:

<https://sandbox-api-stg.solaredge.com/swagger-ui/index.html?configUrl=/v3/api-docs/swagger-config#/SandboxApi%20Web%20API>

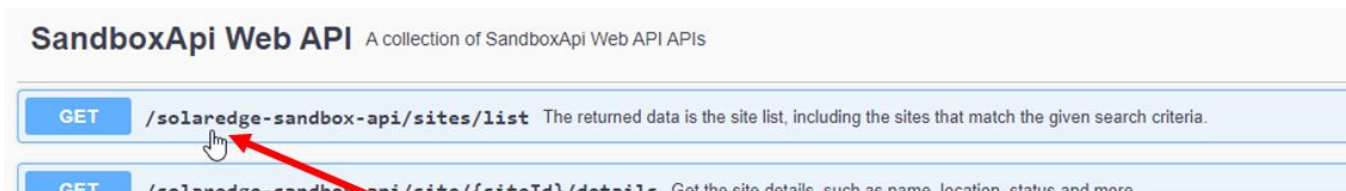
The following interfaces can be accessed:

- GET /solaredge-sandbox-api/sites/list – returns a site list
- GET /solaredge-sandbox-api/site/{siteId}/details – returns details on a specified site

## Using the API

→ To operate the API:

1. Click on the interface you wish to access to display the interface parameters.



2. Click on the **Try it out** button.



3. Enter the desired parameters, and click on the **Execute** button.

The screenshot shows the parameter input form. The fields are:

Name	Description
api_key * required string (query)	L48sslW6ON
size string (query)	19
sortProperty string (query)	MaxImpact
sortOrder string (query)	DESC

At the bottom right is an **Execute** button. A red arrow points to the Execute button.

4. Check the return code and JSON structure in the **Responses** field.

## Sandbox Service API Parameters

GET /solaredge-sandbox-api/sites/list

- api\_key: "L48sslW6ON"
- size: 19
- sortProperty: the field to sort by (optional)
- sortOrder: "ASC" or "DESC" (optional)

GET /solaredge-sandbox-api/site/{siteId}/details

- siteId: site number – from 1 to 19
- api\_key: "L48sslW6ON"

## Sandbox Alert Distribution

The alerts among the 19 sites in the sandbox are distributed as follows:

Site	Alert	Impact
Site 1 name	Battery Circuit Breaker Tripped	11
Site 2 name	Battery Below Min SOE	11
Site 3 name	Inverter Grid Frequency	7
Site 4 name	Inverter Grid Voltage	7
Site 5 name	Inverter Below Threshold General	7
Site 6 name	Inverter Below Threshold Low Voltage	7
Site 7 name	Inverter Below Threshold Off	1
Site 8 name	Inverter Below Threshold RCD	4
Site 9 name	Inverter Below Threshold Shutdown	1
Site 10 name	Inverter Below Threshold STDBY	1
Site 11 name	Inverter Below Threshold DC Isolation	4
Site 12 name	Inverter Below Threshold Error	1
Site 13 name	Panel Communication Fault	3
Site 14 name	Site Communication Fault	1
Site 15 name	Storage Communication Fault	1
Site 16 name	String Communication Fault	4
Site 17 name	Meter Communication Fault	11
Site 18 name	Inverter Communication Fault	1
Site 19 name	All Alerts	11