Technical Documentation

May 2nd, 2019
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Sentilo Connector Reference

Default Configuration - Basic Auth/Token

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Token</td>
<td>String</td>
<td>Authorization Token to use certain functions in Sentilo. A token is entered for the use of the platform.</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Url of the platform</td>
<td>String</td>
<td>The URL that uses the Sentilo services.</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

Throws

SENTILO:INCORRECT_CREDENTIALS
SENTILO:UNKNOWN

Supported Operations

- Put data
- Put data id sensor
- Get data
- Get data id sensor
- Delete data
- Delete data id sensor
- Put alarm
- Get alarm
- Create alert
- Get alert
Update alert
Delete alert
Delete put alert
Get subscription
Put subscription sensor data
Put subscription alert

Operations

Put data

<sentilo:put-data>

This action allows a provider to publish details of the observations made by more than one sensor in a single message.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity Type</td>
<td>String</td>
<td>Default metadata</td>
<td>Name schema</td>
<td></td>
</tr>
<tr>
<td>Body Reference</td>
<td>InputStream</td>
<td>Data of a request</td>
<td>#[payload]</td>
<td>x</td>
</tr>
<tr>
<td>Id Provider</td>
<td>String</td>
<td>Id of the specific provider</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

Output
No response.

For Configurations

- sentilo-config

 Throws

- SENTILO:INCORRECT_CREDENTIALS
- SENTILO:UNKNOWN
Put data id sensor

<sentilo:put-data-id-sensor>

This action allows a provider to publish the observations made by one of its sensors.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity Type</td>
<td>String</td>
<td>Default metadata</td>
<td>Name schema</td>
<td></td>
</tr>
<tr>
<td>Body Reference</td>
<td>InputStream</td>
<td>Data of a request</td>
<td>#{payload}</td>
<td>x</td>
</tr>
<tr>
<td>Id Provider</td>
<td>String</td>
<td>Id of the specific provider</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Id Sensor</td>
<td>String</td>
<td>Id of the specific sensor</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

Output
No response.

For Configurations

- sentilo-config

Throws

- SENTILO:INCORRECT_CREDENTIALS
- SENTILO:UNKNOWN

Get data

<sentilo:get-data>
This action allows to retrieve the latest observations of the sensors of a provider. In addition, the service can also specify search criterias to retrieve observations: filter by a given time period and / or to indicate the maximum number of observations to be recovered.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>String</td>
<td>Indicates the beginning of the time period for which you want to retrieve the observations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Id Provider</td>
<td>String</td>
<td>Id of the specific provider</td>
<td>#[payload]</td>
<td>x</td>
</tr>
<tr>
<td>Limit</td>
<td>String</td>
<td>Specifies the maximum number of observations for each sensor to recover.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To</td>
<td>String</td>
<td>Indicates the end of the time period for which you want to retrieve the observations.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Output

<table>
<thead>
<tr>
<th>Type</th>
<th>InputStream</th>
</tr>
</thead>
</table>

For Configurations

- sentilo-config

Throws

- SENTILO:INCORRECT_CREDENTIALS
Get data id sensor

<sentilo:get-data-id-sensor>

This action allows you to retrieve the latest observations of a sensor. In addition, the service can also permits to specify search criteria to retrieve observations: filter by a given time period and / or to indicate the maximum number of observations to be retrieved.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>String</td>
<td>Indicates the beginning of the time period for which you want to</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- retrieve the observations.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Id Provider</td>
<td>String</td>
<td>Id of the specific provider</td>
<td>#[payload]</td>
<td>x</td>
</tr>
<tr>
<td>Id Sensor</td>
<td>String</td>
<td>Id of the specific sensor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Limit</td>
<td>String</td>
<td>Specifies the maximum number of observations for each sensor to</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- recover.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>To</td>
<td>String</td>
<td>Indicates the end of the time period for which you want to</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>- retrieve the observations.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Output

<table>
<thead>
<tr>
<th>Type</th>
<th>InputStream</th>
</tr>
</thead>
</table>

For Configurations
Delete data

<sentilo:delete-data>

This action allows to delete observations made by one or several sensors of a provider.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id Provider</td>
<td>String</td>
<td>Id of the specific provider</td>
<td>#[payload]</td>
<td>x</td>
</tr>
</tbody>
</table>

Output
No response.

For Configurations

- sentilo-config

Delete data id sensor

<sentilo:delete-data-id-sensor>

This action eliminates the observations made by a sensor of a provider.

Parameters
### Put alarm

**<sentilo:put-alarm>**

This action allows you to publish an alarm related with an alert. Once the system receives the alarm, persists it and sends the notification to all who are subscribed to alarms alert.

#### Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity Type</td>
<td>String</td>
<td>Default metadata</td>
<td>Name schema</td>
<td></td>
</tr>
<tr>
<td>Body Reference</td>
<td>InputStream</td>
<td>Data of a request</td>
<td>#[payload]</td>
<td>x</td>
</tr>
</tbody>
</table>
Id Alert | String | Id of the specific Alert | x

Output
No response.

For Configurations
- sentilo-config

Throws
- SENTILO:INCORRECT_CREDENTIALS
- SENTILO:UNKNOWN

Get alarm

<sentilo:get-alarm>

This action allows to retrieve the latest alarms related with an alert. In addition, the service can also specify search criterias to retrieve alarms: filter by a given time period and/or indicate the maximum number of alarms to be retrieved.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>From</td>
<td>String</td>
<td>Indicates the starting of the time period for which you want to retrieve alarms.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Id Alert</td>
<td>String</td>
<td>Id of the specific Alert</td>
<td>#[payload]</td>
<td>x</td>
</tr>
<tr>
<td>Limit</td>
<td>String</td>
<td>Specifies the maximum number of alarms to recover.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
To
String
Indicates the end of the time period for which you want to retrieve alarms

Output
Type
InputStream

For Configurations
- sentilo-config

Throws
- SENTILO:INCORRECT_CREDENTIALS
- SENTILO:UNKNOWN

Create alert

<sentilo:create-alert>

This action allows to register one or more new alerts in the catalog.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity Type</td>
<td>String</td>
<td>Default metadata</td>
<td>Name schema</td>
<td></td>
</tr>
<tr>
<td>Body Reference</td>
<td>InputStream</td>
<td>Data of a request</td>
<td>#[payload]</td>
<td>x</td>
</tr>
<tr>
<td>Id Entity</td>
<td>String</td>
<td>Related entity identifier associated with the alert</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

Output
For Configurations

- sentilo-config

Throws

- SENTILO:INCORRECT_CREDENTIALS
- SENTILO:UNKNOWN

Get alert

<sentilo:get-alert>

This action returns the list of alerts for which the entity_id could do a subscription, i.e., alerts that belong to entity_id or alerts for which entity_id has read permission over its owner. In addition, the service also allows you to specify search criteria to filter alerts to be retrieved: filter by alert type and / or filter by trigger type.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id Entity</td>
<td>String</td>
<td>Indicates the starting of the time period for which you want to retrieve alarms.</td>
<td>#[payload]</td>
<td>x</td>
</tr>
<tr>
<td>Trigger</td>
<td>String</td>
<td>Trigger type</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>String</td>
<td>Alert type</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Output

<table>
<thead>
<tr>
<th>Type</th>
<th>InputStream</th>
</tr>
</thead>
</table>
For Configurations

- sentilo-config

Throws

- SENTILO:INCORRECT_CREDENTIALS
- SENTILO:UNKNOWN

Update alert

<sentilo:update-alert>

This action allows to update one or more alerts in the catalog.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity Type</td>
<td>String</td>
<td>Default metadata</td>
<td>Name schema</td>
<td></td>
</tr>
<tr>
<td>Body Reference</td>
<td>InputStream</td>
<td>Data of a request</td>
<td>#[payload]</td>
<td>x</td>
</tr>
<tr>
<td>Id Entity</td>
<td>String</td>
<td></td>
<td>x</td>
<td></td>
</tr>
</tbody>
</table>

Output
No response.

For Configurations

- sentilo-config

Throws

- SENTILO:INCORRECT_CREDENTIALS
- SENTILO:UNKNOWN
Delete alert

<sentilo:delete-alert>

This action allows to delete alerts from the catalog. The internal alerts can only be deleted using the Catalog’s token or through the Catalog console. The external alerts can only be removed using the entity’s owner token.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Id Entity</td>
<td>String</td>
<td>Id Entity can be also an Application or a Provider too</td>
<td>#[payload]</td>
<td>x</td>
</tr>
</tbody>
</table>

- DELETE will be used if we want to delete all of our alerts. It cannot contain any body content.

Output
No response.

For Configurations

- sentilo-config

Throws

- SENTILO:INCORRECT_CREDENTIALS
- SENTILO:UNKNOWN

Delete put alert

<sentilo:delete-put-alert>

This action allows to delete alerts from the catalog. The internal alerts can only be deleted using the Catalog’s token or through the Catalog console. The external alerts can only be removed using the entity’s owner token.
Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity Type</td>
<td>String</td>
<td>Default metadata</td>
<td>Name schema</td>
<td>x</td>
</tr>
<tr>
<td>Body Reference</td>
<td>InputStream</td>
<td>Data of a request</td>
<td>#[payload]</td>
<td></td>
</tr>
<tr>
<td>Id Entity</td>
<td>String</td>
<td>Id Entity can be also an Application or a Provider</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- PUT will be used when we want to delete a group of alerts. We should add the parameter method with delete value to the request. In this case, the alerts to delete should be specified in the body message.

Output
No response.

For Configurations
- sentilo-config

Throws
- SENTILO:INCORRECT_CREDENTIALS
- SENTILO:UNKNOWN

Get Subscription

<sentilo:get-subscription>

This action allows to retrieve the list of all our active subscriptions. Additionally, we can retrieve only subscriptions from a specific type.

Parameters
<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Event Type</td>
<td>String</td>
<td>Event Type is optional and allows to filter the subscription by type.</td>
<td>#[payload]</td>
<td>x</td>
</tr>
</tbody>
</table>

### Output

<table>
<thead>
<tr>
<th>Type</th>
<th>InputStream</th>
</tr>
</thead>
</table>

### For Configurations

- **sentilo-config**

### Throws

- **SENTILO:INCORRECT_CREDENTIALS**
- **SENTILO:UNKNOWN**

### Put subscription sensor data

<sentilo:put-subscription-sensor-data>

This action allows to subscribe to observation data associated to sensors.

### Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity Type</td>
<td>String</td>
<td>Default metadata</td>
<td>Name schema</td>
<td></td>
</tr>
<tr>
<td>Body Reference</td>
<td>InputStream</td>
<td>Data of a request</td>
<td>#[payload]</td>
<td>x</td>
</tr>
<tr>
<td>Id Provider</td>
<td>String</td>
<td>Id of the specific Provider</td>
<td></td>
<td>x</td>
</tr>
<tr>
<td>Id Sensor</td>
<td>String</td>
<td>Id of the specific Sensor</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>
Output
No response.

For Configurations

- sentilo-config

Throws

- SENTILO:INCORRECT_CREDENTIALS
- SENTILO:UNKNOWN

Put subscription alert

<sentilo:put-subscription-alert>

This action allows to subscribe to alarms associated to sensors.

Parameters

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
<th>Default Value</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity Type</td>
<td>String</td>
<td>Default metadata</td>
<td>Name schema</td>
<td></td>
</tr>
<tr>
<td>Body Reference</td>
<td>InputStream</td>
<td>Data of a request</td>
<td>#{payload}</td>
<td>x</td>
</tr>
<tr>
<td>Id Alert</td>
<td>String</td>
<td>Id of the specific Alert</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

Output
No response.

For Configurations

- sentilo-config
Throws

- `SENTILO:INCORRECT_CREDENTIALS`
- `SENTILO:UNKNOWN`