



Version: 1.0

Illuminance

The Illuminance component handles the monitoring of device's illuminance sensors. Illuminance components are identified with `illuminance:<id>` in objects containing multiple component payloads.

The Illuminance component uses `Illuminance` as RPC namespace and implements the minimal component interface:

- `Illuminance.GetConfig` to obtain the component's [configuration](#)
- `Illuminance.SetConfig` to update the component's [configuration](#)
- `Illuminance.GetStatus` to obtain the component's [status](#)

Methods

Illuminance.SetConfig

Properties:

| Property | Type | Description |
|---------------------|---------------|--|
| <code>id</code> | <i>number</i> | Id of the Illuminance component instance |
| <code>config</code> | <i>object</i> | Configuration that the method takes |

Find more about the config properties in [config section](#)

Illuminance.GetConfig

| Property | Type | Description |
|-----------------|---------------|--|
| <code>id</code> | <i>number</i> | Id of the Illuminance component instance |

Find the *Illuminance.GetConfig* response properties in [config section](#)

Illuminance.GetStatus

Properties:

| Property | Type | Description |
|-----------------|---------------|--|
| <code>id</code> | <i>number</i> | Id of the Illuminance component instance |

Find more about the status response properties in [status section](#)

Configuration

The configuration of the Illuminance component allows to adjust the `illumination` thresholds (`dark_thr` / `bright_thr`). To Get/Set the configuration of the Illuminance component its `id` must be specified.

Properties:

| Property | Type | Description |
|-----------------------|---------------|---|
| <code>id</code> | <i>number</i> | Id of the Illuminance component instance |
| <code>name</code> | <i>string</i> | Name of the Illuminance instance. <code>name</code> length should not exceed 64 chars |
| <code>dark_thr</code> | <i>number</i> | Threshold in lux. Accepted range is device-specific |

| Property | Type | Description |
|-------------------------|---------------|---|
| <code>bright_thr</code> | <i>number</i> | <code>bright</code> threshold in lux. Accepted range is device-specific |

Status

The status of the Illuminance component represents the measurement of the associated illuminance sensor. To obtain the status of the Illuminance component its `id` must be specified.

Properties:

| Property | Type | Description |
|---------------------------|-----------------------------|---|
| <code>id</code> | <i>number</i> | Id of the Illuminance component instance |
| <code>lux</code> | <i>number or null</i> | Illuminance in lux (<code>null</code> if valid value could not be obtained) (if applicable) |
| <code>illumination</code> | <i>string or null</i> | Illuminance level interpreted according to <code>dark_thr/bright_thr</code> (<code>null</code> if valid value could not be obtained): <code>lux</code> below <code>dark_thr</code> is interpreted as <code>dark</code> , <code>lux</code> between <code>dark_thr</code> and <code>bright_thr</code> is interpreted as <code>twilight</code> , <code>lux</code> above <code>bright_thr</code> is interpreted as <code>bright</code> |
| <code>errors</code> | <i>array of type string</i> | Shown only if at least one error is present. May contain <code>out_of_range</code> , <code>read</code> when there is problem reading sensor |

Webhook Events

There is one event related to the Illuminance component that can trigger webhooks:

- `illuminance.change` - produced when `illumination` (`dark`/`twilight`/`bright`) has changed between two measurements

`illuminance.change` support two *attributes*, that can be used to compose conditional [webhooks](#):

- `lux`: number, new illuminance in lux (if applicable)
- `illumination`: string, new illuminance level interpreted according to `dark_thr`/`bright_thr`

Examples

Illuminance.SetConfig example

**Illuminance.SetConfig HTTP
GET Request**

**Illuminance.SetConfig
Curl Request**

**Illuminance.SetConfig
Mos Request**

```
http://192.168.33.1/rpc/Illuminance.SetConfig?id=0&config=
{"name":"Illuminance0"}
```

Illuminance.GetConfig example

**Illuminance.GetConfig HTTP
GET Request**

**Illuminance.GetConfig
Curl Request**

**Illuminance.GetConfig
Mos Request**

```
http://192.168.33.1/rpc/Illuminance.GetConfig?id=0
```

Response

```
{
  "id": 0,
  "name": null,
  "dark_thr": 200,
  "bright_thr": 300
}
```

Illuminance.GetStatus example

**Illuminance.GetStatus HTTP
GET Request**

**Illuminance.GetStatus
Curl Request**

**Illuminance.GetStatus
Mos Request**

```
http://192.168.33.1/rpc/Illuminance.GetStatus?id=0
```

Response

```
{
  "id": 0,
  "lux": 350,
  "illumination": "bright",
  "errors": [
    "out_of_range"
  ]
}
```