

Streetlights API 1.0.0

APACHE 2.0

APPLICATION/JSON

The Smartylighting Streetlights API allows you to remotely manage the city lights.

Check out its awesome features:

- Turn a specific streetlight on/off 🏠
- Dim a specific streetlight 😎
- Receive real-time information about environmental lighting conditions 📊

Servers

mqtt://test.mosquitto.org:{port}/ **MQTT** **PRODUCTION**

Test broker

URL Variables [^] Expand all **Object**

port

required

String

Secure connection (TLS) is available through port 8883.

Default value: "1883"

Allowed values: "1883" "8883"

Operations

RECEIVE smartylighting/streetlights/1/0/event/{streetlightId}/lighting/measured

The topic on which measured values may be produced and consumed.

Inform about environmental lighting conditions of a particular streetlight.

This is the description with **bold** text.

On multiple lines.

Operation ID `receiveLightMeasurement`

Available only on servers:

production

Parameters ^ Expand all

Object

streetlightId

required

String

The ID of the streetlight.

Operation specific information

KAFKA

^ Expand all Object

clientId ^ Expand all

Object

const

my-app-id

[#operation-tag1](#)

[#operation-tag2](#)

[#operation-tag3](#)

[#operation-tag4](#)

[#message-tag5](#)

Accepts the following message:

Light measured

`receiveLightMeasurement.message`

Inform about environmental lighting conditions of a particular streetlight.

APPLICATION/JSON

Message ID

`receiveLightMeasurement.message`

Payload ^ Expand all

Object

lumens ^ Expand all

Integer `>= 0`

Light intensity measured in lumens.

Extensions ^ Expand all Object

x-pi

false

sentAt

String `format: date-time`

Date and time when the message was sent.

Additional properties are allowed.

Headers ^ Expand all

Object

my-app-header

Integer `[0 .. 100]`

Additional properties are allowed.

[#message-tag1](#)

[#message-tag2](#)

[#message-tag3](#)

[#message-tag4](#)

[#message-tag5](#)

Examples

Payload ^

```
{
  "lumens": 0,
  "sentAt": "2019-08-24T14:15:22Z"
}
```

This example has been generated automatically.

Headers ^

```
{
  "my-app-header": 100
}
```

This example has been generated automatically.

SEND smartylighting/streetlights/1/0/action/{streetlightId}/turn/on

Operation ID `turnOn`

Available only on servers:

production

Parameters ^ Expand all **Object**

`streetlightId` **String**
required The ID of the streetlight.

Operation specific information **KAFKA** ^ Expand all **Object**

`clientId` ^ Expand all **Object**

`const` my-app-id

Accepts the following message:

Turn on/off `turnOn.message`

Command a particular streetlight to turn the lights on or off.

APPLICATION/JSON

Message ID `turnOn.message`

Payload ^ Expand all

Object

command ^ Expand all

String

Whether to turn on or off the light.

Allowed values:

Extensions ^ Expand all

Object

x-pi

false

sentAt

String **format: date-time**

Date and time when the message was sent.

Additional properties are allowed.

Headers ^ Expand all

Object

my-app-header

Integer **[0 .. 100]**

Additional properties are allowed.

Examples

Payload ^

```
{
  "command": "on",
  "sentAt": "2019-08-24T14:15:22Z"
}
```

This example has been generated automatically.

Headers ^

```
{
  "my-app-header": 100
}
```

This example has been generated automatically.

SEND

smartylighting/streetlights/1/0/action/{streetlightId}/turn/off

Operation ID

Available only on servers:

production

Parameters ^ Expand all

Object

streetlightId

required

String

The ID of the streetlight.

Operation specific information

KAFKA

^ Expand all Object

clientId ^ Expand all

Object

const

my-app-id

Accepts the following message:

Turn on/off

turnOn.message

Command a particular streetlight to turn the lights on or off.

APPLICATION/JSON

Message ID

turnOn.message

Payload ^ Expand all

Object

command ^ Expand all

String

Whether to turn on or off the light.

Allowed values:

"on"

"off"

Extensions ^ Expand all

Object

x-pi

false

sentAt

String

format: date-time

Date and time when the message was sent.

Additional properties are allowed.

Headers ^ Expand all

Object

my-app-header

Integer

[0 .. 100]

Additional properties are allowed.

Examples

Payload ^

```
{
  "command": "on",
  "sentAt": "2019-08-24T14:15:22Z"
}
```

This example has been generated automatically.

Headers ^

```
{
  "my-app-header": 100
}
```

This example has been generated automatically.

SEND smartylighting/streetlights/1/0/action/{streetlightId}/dim

Operation ID **dimLight**

Available only on servers:

production

Parameters ^ Expand all **Object**

streetlightId **String**
required The ID of the streetlight.

Operation specific information **KAFKA** ^ Expand all **Object**

clientId ^ Expand all **Object**

const my-app-id

Accepts the following message:

Dim light **dimLight.message**

Command a particular streetlight to dim the lights.

APPLICATION/JSON

Message ID **dimLight.message**

Payload ^ Expand all **Object**

percentage

Integer [0 .. 100]

Percentage to which the light should be dimmed to.

sentAt

String format: date-time

Date and time when the message was sent.

Additional properties are allowed.

Headers ^ Expand all

Object

my-app-header

Integer [0 .. 100]

Additional properties are allowed.

Examples

Payload ^

```
{
  "percentage": 100,
  "sentAt": "2019-08-24T14:15:22Z"
}
```

This example has been generated automatically.

Headers ^

```
{
  "my-app-header": 100
}
```

This example has been generated automatically.

SEND some.channel

this description shows in markdown

Operation ID `some.channel.subscribe`

Available only on servers:

production

Accepts **one of** the following messages:

#0 `subscribe.message.0`

APPLICATION/JSON

Message ID `subscribe.message.0`

Payload [^] Expand all

Object

result

String

Examples values: `"success"`

Additional properties are allowed.

Examples

Payload [^]

```
{
  "result": "success"
}
```

This example has been generated automatically.

#1 `subscribe.message.1`

APPLICATION/JSON

Message ID `subscribe.message.1`

Payload [^] Expand all

Object

Examples values: `{"error":{"errorCode":404,"errorMessage":"Something messed up"}}`

error [^] Expand all

Object

errorCode

Integer

errorMessage

String

Additional properties are allowed.

Additional properties are allowed.

Examples

Payload [^]

#1 Example

```
{
  "error": {
    "errorCode": 404,
    "errorMessage": "Something messed up"
  }
}
```


Messages

#1 Light measured `lightMeasured`

Inform about environmental lighting conditions of a particular streetlight.

APPLICATION/JSON

Message ID `lightMeasured`

Payload [^] Expand all **Object**

lumens [^] Expand all **Integer** `>= 0`
Light intensity measured in lumens.

Extensions [^] Expand all **Object**

x-pi false

sentAt **String** `format: date-time`
Date and time when the message was sent.

Additional properties are allowed.

Headers [^] Expand all **Object**

my-app-header **Integer** `[0 .. 100]`

Additional properties are allowed.

[#message-tag1](#)

[#message-tag2](#)

[#message-tag3](#)

[#message-tag4](#)

[#message-tag5](#)

#2 Turn on/off `turnOnOff`

Command a particular streetlight to turn the lights on or off.

APPLICATION/JSON

Message ID `turnOnOff`

Payload [^] Expand all **Object**

command ^ Expand all

String

Whether to turn on or off the light.

Allowed values:

Extensions ^ Expand all **Object**

x-pi

false

sentAt

String format: date-time

Date and time when the message was sent.

Additional properties are allowed.

Headers ^ Expand all

Object

my-app-header

Integer [0 .. 100]

Additional properties are allowed.

#3 Dim light

Command a particular streetlight to dim the lights.

APPLICATION/JSON

Message ID

Payload ^ Expand all

Object

percentage

Integer [0 .. 100]

Percentage to which the light should be dimmed to.

sentAt

String format: date-time

Date and time when the message was sent.

Additional properties are allowed.

Headers ^ Expand all

Object

my-app-header

Integer [0 .. 100]

Additional properties are allowed.

#4

APPLICATION/JSON

Message ID `successMessage`

Payload [^] Expand all

Object

result

String

Examples values: `"success"`

Additional properties are allowed.

#5 `failureMessage`

APPLICATION/JSON

Message ID `failureMessage`

Payload [^] Expand all

Object

Examples values: `{"error":{"errorCode":404,"errorMessage":"Something messed up"}}`

error [^] Expand all

Object

errorCode

Integer

errorMessage

String

Additional properties are allowed.

Additional properties are allowed.

Schemas

lightMeasuredPayload [^] Expand all **Object**

lumens [^] Expand all

Integer `>= 0`

Light intensity measured in lumens.

Extensions [^] Expand all **Object**

x-pi

false

sentAt

String `format: date-time`

Date and time when the message was sent.

Additional properties are allowed.

turnOnOffPayload [^] Expand all **Object**

command [^] Expand all

String

Whether to turn on or off the light.

Allowed values:

Extensions [^] Expand all **Object**

x-pi

false

sentAt

String format: date-time

Date and time when the message was sent.

Additional properties are allowed.

dimLightPayload [^] Expand all **Object**

percentage

Integer [0 .. 100]

Percentage to which the light should be dimmed to.

sentAt

String format: date-time

Date and time when the message was sent.

Additional properties are allowed.

sentAt

String format: date-time

Date and time when the message was sent.