

SLOC PUSH API

Interface specification

Version: 1.2

Last updated: 2023.03.13



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1 General description of the Push API functionality

The SLOC Push API is a service with which the data of an organization is provided by the SLOC Device Management (SDM) at a certain interval.

For this purpose, the push URL of the customer endpoint and the authorization header of the endpoint are entered in the SDM. If the customer endpoint does not use an authorization header, the customer API must be adapted.

In each transmission interval of the push API, all data of the SLOCs of an organization, which have been stored in the SDM since the last interval, are sent. The JSON format, how the data is sent, is explained in more detail in chapter 1.2.

1.1 General information about the Push API

Sending interval: 5 minutes

Customer endpoint: Is the endpoint (URL) to which the data should be sent. This URL must be announced to SLOC so that it can be integrated into the system.

Authorization header: Is the usual standard implemented by SLOC GmbH for this service to call the request to the customer endpoint with an authentication. If the Authorization header is not used, this must be communicated to the SLOC, as there must then be an extension for the push API specifically for the use case here.

Data: Data is transferred in a special JSON format (see chapter 1.2)

1.2 Data format of the PUSH message

The data is transmitted in JSON format. Since there are usually several data per interval, they are sent as an array.

A JSON object of this array looks like this:

```
{
  notification_type: "data_transmission"
  mac: "04C3E6800000",
  sloc_time: "2022-02-09 23:37:55",
  rec_time: "2022-02-09 23:38:33",
  data_type_id: 4,
  data_type: "Fill Level",
  value: "100%"
}
```



1.2.1 Description of the individual properties of the JSON object

Property Name	Description
notification_type	Describes the data transmission type
mac	MAC address of the SLOC which has sent the data.
sloc_time	The time when the SLOC recorded the data
rec_time	The time when the data has been sent from the SLOC to the SDM
data_type_id	The ID of the data type which was sent by the SLOC
data_type	The name of the data type which was sent by the SLOC
value	Is the value of the data types, which was recorded by the SLOC

1.2.2 Example of a push message

```
data : [  
  {  
    notification_type: "data_transmission"  
    mac: "04C3E6800000",  
    sloc_time: "2022-02-09 23:37:55",  
    rec_time: "2022-02-09 23:38:33",  
    data_type_id: 4,  
    data_type: "Fill Level",  
    value: "100%"  
  },  
  {  
    notification_type: "data_transmission"  
    mac: "04C3E6800002",  
    sloc_time: "2022-02-09 23:37:55",  
    rec_time: "2022-02-09 23:38:33",  
    data_type_id: 1,  
    data_type: "Temperature",  
    value: "25°"  
  }  
]
```

