

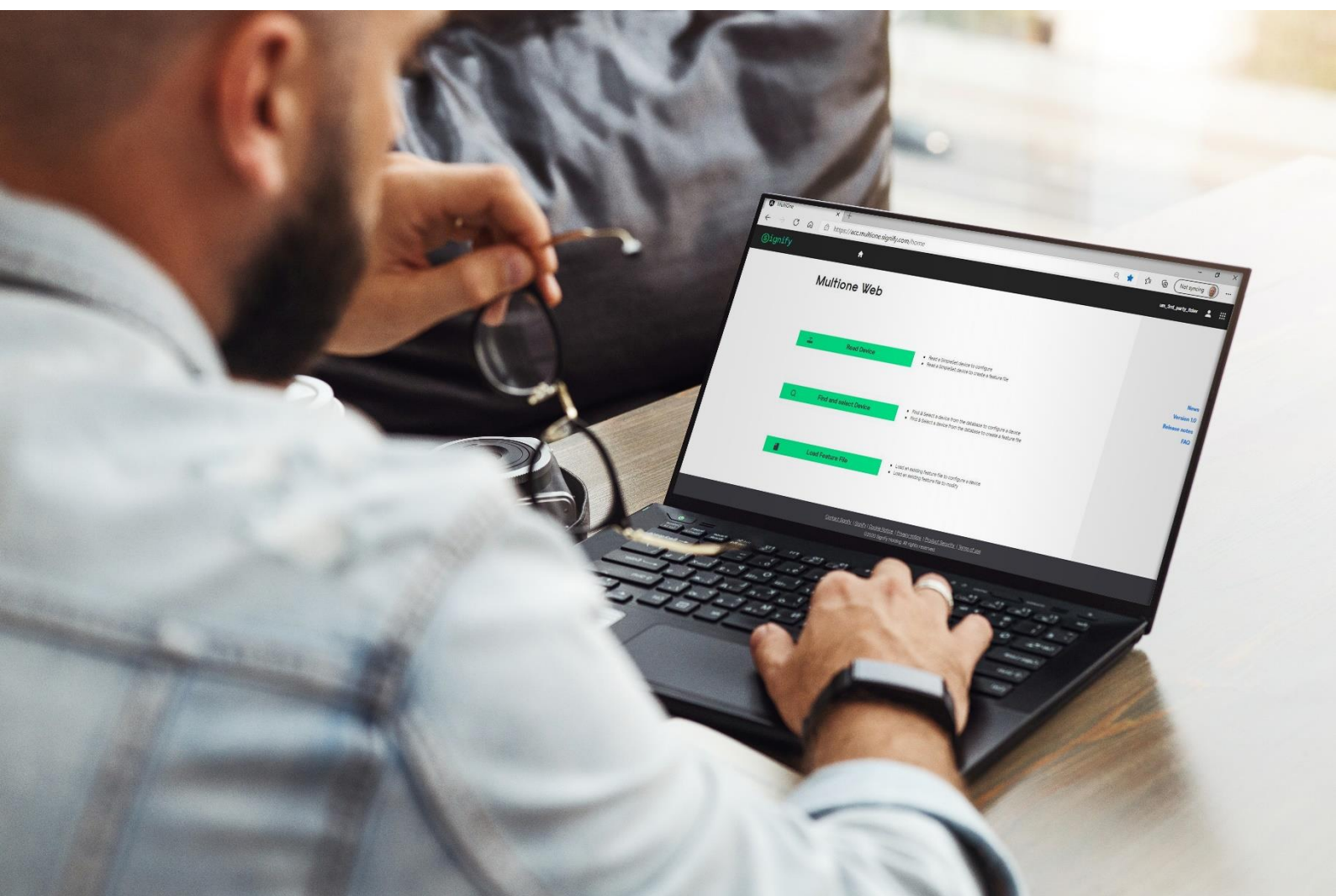


# MultiOne

by @signify

MultiOne Cloud  
Configuration tooling

## MultiOne Cloud 1.22



## Application Guide for MultiOne Cloud

Document version July 2025

## About this document

This document describes

1. How to connect to MultiOne Cloud using Postman.
2. The API (Application Programming Interface) calls for the generation of feature files.
3. Example syntax for all driver features useful for configuration.

## Scope and Purpose

MultiOne cloud features and use of REST APIs (Representational State Transfer Application Programming Interface) with Postman application that supports your automation system.

## Intended Audience

This document is intended for software experts and developers of the OEM who are involved to the fullest in the integration of MultiOne Cloud in the automation systems.

For access, contact [multione@signify.com](mailto:multione@signify.com) (or) regional Key Account Managers.

## Privacy notes and Terms Agreement

For the privacy notes for MultiOne Cloud and MultiOne Web visit our site:

<https://www.signify.com/global/privacy/legal-information/privacy-notice>

The term of conditions for these tools can be found on:

<https://www.signify.com/global/terms-of-use>

## Version history

| Date        | Changes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22 Oct 2020 | Added items SR Power<br>Removed in feature Dimming Interface “AmpDim”, since this is not yet supported<br>Minor textual changes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 22 Nov 2021 | Added comment on override possibilities for the Dimming Interface<br>minor textual change                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 15 Mar 2022 | Encryption of feature file removed<br>API commands modified to support multiple calls in one session<br>Added features: <ul style="list-style-type: none"><li>- 0-10V interface</li></ul> Removed features: <ul style="list-style-type: none"><li>- Corridor Mode</li><li>- Touch and Dim</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 11 Jun 2022 | Added features Beta <ul style="list-style-type: none"><li>- MidnightShift calculator</li><li>- MTP (Module Temperature Protection)</li><li>- AmpDim</li></ul> Note – In this version ‘MidpointShift’ is changed to ‘MidnightShift’<br>The version is backward compatible<br><br>Works for Production url and Beta url (See supported device List for June 2022)<br><a href="https://api.multione.signify.com/auth/api/v1">https://api.multione.signify.com/auth/api/v1</a><br><a href="https://api.beta.multione.signify.com/auth/api/v1">https://api.beta.multione.signify.com/auth/api/v1</a>                                                                                                                                                                                                                                                                                                                                                                                                  |
| 13 Dec 2022 | API call for list of device features<br>Added features <ul style="list-style-type: none"><li>- Corridor Mode</li><li>- Touch and Dim</li><li>- OWP (OEM Write Protection)</li><li>- Luminaire info Format 0</li></ul> The version is backward compatible<br>Works only for Production url (See supported device List for December 2022)<br><a href="https://api.multione.signify.com/auth/api/v1">https://api.multione.signify.com/auth/api/v1</a><br>No changes were made in the Beta environment<br><br>Note (1) All the feature names are case insensitive.<br>For E.g., Feature name ‘AOC’ can be written as aoc, Aoc<br>Feature name ‘DimmingInterface’ can be written as dimminginterface,<br>dimmingInterface<br>Note (2) Under Dimming Interface, feature parameters of Selected Interface and<br>Override Interface are case sensitive – Refer the Dimming Interface Section<br>Note (3) Under feature name OWP/Owp/owp, feature parameters are case sensitive<br>Refer the OWP section |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16 Aug 2023     | <p>Updated features</p> <ul style="list-style-type: none"> <li>- AOC (Adjustable Output Current)</li> <li>- Midnight Shift Calculator</li> <li>- Driver Temperature Limit</li> <li>- Luminaire Info format 3 (DALI part 251)</li> <li>- AST (Adjustable Start-up Time)</li> <li>- ZTV (Zero to Ten Volt)</li> <li>- Corridor</li> <li>- Touch and Dim</li> <li>- OWP (OEM Write Protection)</li> <li>- Dynadimmer</li> </ul> <p><i>The feature name “Dynadim” is deprecated. It is replaced with “Dynadimmer”</i></p> <p>Added features</p> <ul style="list-style-type: none"> <li>- Retrieve driver production info</li> <li>- Coded Mains</li> </ul> |
| 1 Jan 2024      | <p>Updated features</p> <ul style="list-style-type: none"> <li>- MTP</li> </ul> <p>Added features</p> <ul style="list-style-type: none"> <li>- DALI 253M</li> </ul> <p>Added Features Metadata API call</p>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 3 Mar 2024      | <p>Updated features</p> <ul style="list-style-type: none"> <li>- SR Power/DALI Power supply</li> </ul> <p><i>The feature name “SRPSU” is deprecated. It is replaced with “DALIPSU”</i></p> <ul style="list-style-type: none"> <li>- Luminaire info Format 3</li> </ul> <p>New search API call to present EDIT information</p>                                                                                                                                                                                                                                                                                                                          |
| 27 May 2024     | <p>Updated feature definitions</p> <p>Removed Beta references as it is no longer viable.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 12 July 2024    | <p>Updated Features</p> <ul style="list-style-type: none"> <li>- FlexTune</li> <li>- Multi Config Mode</li> <li>- Dynadimmer 10 Scenes with CCT</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 31 August 2024  | <p>Updated Features</p> <ul style="list-style-type: none"> <li>- Dynadimmer 10 Scenes</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 11 October 2024 | <p>Updated Features</p> <ul style="list-style-type: none"> <li>- OWP – update for MultiOne Web to save feature file, set password and configure.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 9 December 2024 | <p>Added API call for Device configuration file generation.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

|               |                                                                                                                      |
|---------------|----------------------------------------------------------------------------------------------------------------------|
| 23 April 2025 | Documentations now can be accessed through MyLighting portal, links and references in the document has been changed. |
|---------------|----------------------------------------------------------------------------------------------------------------------|

|              |                                                                                                                    |
|--------------|--------------------------------------------------------------------------------------------------------------------|
| 07 July 2025 | DALI Part 251 update <ul style="list-style-type: none"><li>- Luminaire information formats 4&amp;5 added</li></ul> |
|--------------|--------------------------------------------------------------------------------------------------------------------|

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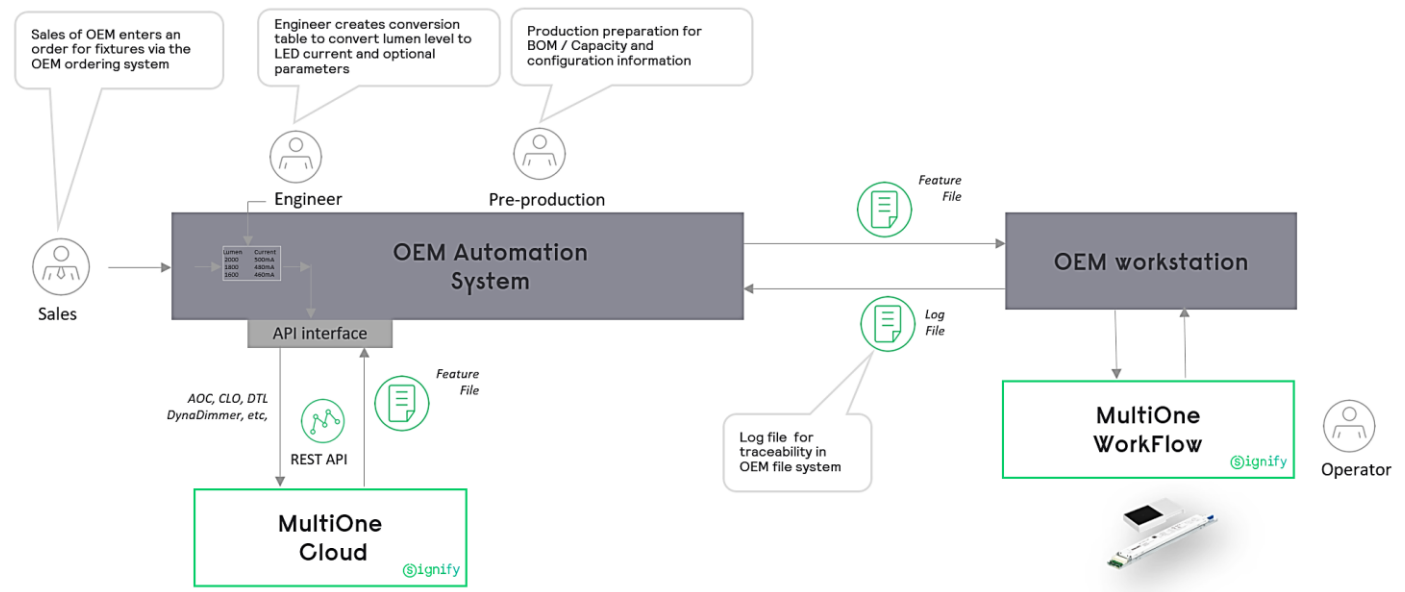
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# Introduction

MultiOne Cloud can decrease time to market and optimize flexibility by connecting your automated planning/resource system. This new tool generates feature files compatible with MultiOne Engineering and MultiOne Workflow that is used in production. It also supports the latest configurable drivers sold from 2022 onwards. MultiOne Cloud is built on the open standard of REST API standardization in JavaScript Object Notation (JSON) format which makes it accessible via many different platforms. MultiOne Cloud is generally used by OEMs who have been using an automation system or planning to implement it. There are also other systems for e.g., excel etc. to which REST API can be connected.



The figure above represents the process flow. The sales personnel/technician enters the sales order, and the details are then converted to driver specific information. Based on this information in the automation system, the system makes specific API calls to connect with MultiOne Cloud as described in this document. In this way the feature files can be generated automatically and can be used in the production for configuring drivers.

APIs, short for Application Programming Interfaces, are software-to-software interfaces. Meaning, they allow different applications to talk to each other and exchange information or functionality. This allows businesses to access another business's data, piece of code, software, or services to extend the functionality of their own products — all while saving time and money (HubSpot, 2022).

An API call is the process of a client application submitting a request to an API and that API retrieving the requested data from the external server or program and delivering it back to the client.

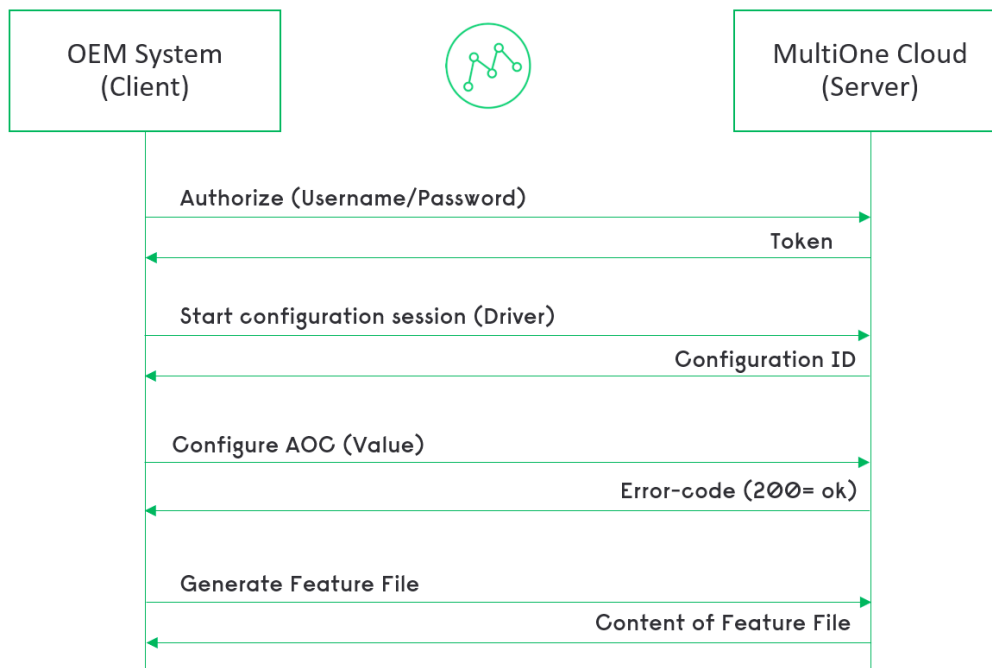


Request for the API calls for MultiOne Cloud are done in the following ways:

- **POST:** To authorize, to initiate configuration and configuration of features
- **GET:** To get the software version, list of device features and content of the feature file from MultiOne Cloud

There are many API testing platforms and one of the most common applications is Postman. This tool can be used for making API calls and in this document, the examples are provided using this tool.

## API sequence for MultiOne



As shown in the above figure, the following steps are needed to create a feature file:

- Authentication (of the registered user) – MultiOne Cloud checks if the user is authorized to communicate with the server. When that is passed, a token is returned.
- Start a configuration session – For every driver configuration, a configuration ID is returned. Multiple sessions are allowed with same authentication.
- Set the feature configuration(s) – Configure features for the driver. Depending on the set values, error codes are returned
- Generate the feature file – After the configuration of features, via ‘Get’ feature file, you can get the content of the feature file. This content can be stored in your system for further use. Note – After the content has been stored, you cannot make changes to the content. You need to start a new session.

All the supporting documents for MultiOne Cloud can be found on Global MyLighting portal.

Link : [MyLighting: Log On](#)

## API calls for MultiOne Cloud

| Functions                 |                                                            | API call                                                                                           |
|---------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Authentication            | The user account is authenticated, and a token is returned | <a href="#">{{url}}/auth/api/v1/authenticate</a>                                                   |
| Start configuration       | A configuration ID is generated for the entered 12NC       | <a href="#">{{url}}/config/api/v1/configuration</a>                                                |
| Configure features        | The features can be configured                             | <a href="#">{{url}}/config/api/v1/configuration/{{configurationId}}/features</a>                   |
| Feature File              | Feature file generated and stored by OEM.                  | <a href="#">{{url}}/feature/api/v1/configuration/{{configurationId}}/feature-file</a>              |
| Device Configuration File | Device configuration file generated and stored by OEM.     | <a href="#">{{url}}/feature/api/v1/configuration/{{configurationId}}/device-configuration-file</a> |

Table 1 : Main API Calls

| Functions                       |                                                                  | API Calls                                                                              |
|---------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Device Features                 | To get the list of device feature of the 12NC provided           | <a href="#">{{url}}/search/api/v1/device/{{device12nc}}/features</a>                   |
| Device Features Metadata        | To get the details of device features of the 12NC provided       | <a href="#">{{url}}/search/api/v1/device/{{device12nc}}/features/metadata</a>          |
| Midnight shift Calculator       | To get the midnight shift value                                  | <a href="#">{{url}}/config/api/v1/calculation/api/v1/midnight-shift</a>                |
| Retrieve driver production info | To get the 12nc, device name and production related information. | <a href="#">{{url}}/search/api/v1/data/devices/{{deviceId}}/production-information</a> |
| Search API call                 | Present EDIT information                                         | <a href="#">{{url}}/search/api/v1/devices/</a>                                         |

Table 2 : Additional API Calls

To select production environment it is advised to define the url for MultiOne Cloud as a variable:

Production:

[{{url}}](#) – <https://api.multione.signify.com/>

Tip – When you make an API call to retrieve the list of device features, you can use the syntax from the response for easy implementation.

## Authentication

With your account credentials you can start the authentication process.

```
{  
  "password": "{{secret}}",  
  "userName": "{{userId}}"  
}
```

EXAMPLE

```
{  
  "password": "MultiOneCloud",  
  "userName": "multione"  
}
```

## Configuration

```
{  
  "device12nc": "String",  
}
```

EXAMPLE

```
{  
  "device12nc": "929002102906",  
}
```

## Supported features

- AOC (Adjustable Output Current)
- CLO (Constant Light Output)
- CLO Lite
- Dimming Interface selection
- ALO (Adjustable Light Output)
- ALO min
- Minimum dim level (different from 0-10V/1-10V dim level)
- DC emergency
- Luminaire info (DALI: part 251)
- DynaDimmer
- Dynadimmer 10 Scenes
- DynaDimmer 10 Scenes with CCT
- DTL (Driver temperature limit)
- LineSwitch
- SR/DALI power supply (DALI: part 250)
- 0-10V/1-10V Interface
- AST (Adjustable Startup Time)
- Midnight shift calculator
- MTP (Module Temperature Protection)
- AmpDim
- Corridor Mode
- Touch and Dim
- Coded Mains
- DALI 253M
- OWP (OEM Write Protection)
- FlexTune
- Multi Config Mode

## Feature configuration

Below you can find some examples for configuration of features. See the design in guides of the driver for the available features. The syntax of the features is slightly changed (in accordance with REST definition). Please find below examples of the code. All the examples syntax is taken from Postman.

The features have in general the following syntax.

```
{
  "featureName": "String",
  "featureParameters": [
    {
      "Featureparameter1": Boolean,
      "Featureparameter2": Integer,
      "Featureparameter3": "String"
    }
  ]
}
```

### *AOC – Adjustable Output Current*

This feature enables the configuration of the maximum LED output current.

| featureName | featureParameter | Type    | Remark                         |
|-------------|------------------|---------|--------------------------------|
| AOC         |                  | String  | Case Insensitive               |
|             | AocEnabled       | Boolean | true/false                     |
|             | AocCurrent       | Integer | Value in mA<br>Driver Specific |

Table 3 : Feature call for AOC – Adjustable Output Current

#### EXAMPLE

```
[
  {
    "featureName": "AOC",
    "featureParameters": [
      {
        "AocEnabled": true,
        "AocCurrent": 300
      }
    ]
  }
]
```

## ALO (Adjustable Light Output)

This feature enables the configuration of the light level as a percentage of the configured LED current (AOC).

| featureName | featureParameter | Type    | Remark                        |
|-------------|------------------|---------|-------------------------------|
| ALO         |                  | String  | Case Insensitive              |
|             | AloEnabled       | Boolean | true/false                    |
|             | AloPercentage    | Integer | Value in %                    |
|             | AloMinLevel      | Integer | Value in %<br>Driver Specific |

Table 4: Feature call for ALO (Adjustable Light Output)

### EXAMPLE

```
[
{
  "featureName": "ALO",
  "featureParameters": [
    {
      "AloEnabled": true,
      "AloPercentage": 80,
      "AloMinLevel": 10
    }
  ]
}
```

## CLO (Constant Light Output)

This feature enables the compensation of the lumen depreciation to maintain a constant light level over time.

| featureName | FeatureParameter | Type        | Remark                          |
|-------------|------------------|-------------|---------------------------------|
| CLO         |                  | String      | Case Insensitive                |
|             | CloEnabled       | Boolean     | true/false                      |
|             | CloPointx        | X = Integer | Min 1 and Max 16 points         |
|             | Time             | Integer     | 0 – 120<br>value in *1000 hours |
|             | Percentage       | Integer     | % Of current                    |

Table 5: Feature call for CLO – Constant Light Output

### EXAMPLE

```
[
  {
    "featureName": "CLO",
    "featureParameters": [
      {
        "CloEnabled": true,
        "CloPoint1": {
          "Time": 0,
          "Percentage": 80
        },
        "CloPoint2": {
          "Time": 50,
          "Percentage": 90
        },
        "CloPoint3": {
          "Time": 100,
          "Percentage": 100
        }
      }
    ]
  }
]
```

## CLOlite (Constant Light Output Lite)

This feature enables the compensation of the lumen depreciation to maintain a constant light level over time.

| featureName | FeatureParameter           | Type    | Remark                          |
|-------------|----------------------------|---------|---------------------------------|
| CLOlite     |                            | String  | Case Insensitive                |
|             | CloLiteEnabled             | Boolean | true/false                      |
|             | CloLiteInitialPowerLevel   | Integer | Value in %                      |
|             | CloLiteMaximumWorkingHours | Integer | 0 – 120<br>value in *1000 hours |

Table 6: Feature call for CLOlite – Constant Light Output Lite

### EXAMPLE

```
[
  {
    "featureName": "CLOLITE",
    "featureParameters": [
      {
        "CloLiteEnabled": true,
        "CloLiteInitialPowerLevel": 90,
        "CloLiteMaximumWorkingHours": 100
      }
    ]
  }
]
```



## Coded Mains

This feature enables control of the light level via the mains leads, an external transmitter sends Coded Mains commands and the device will react according the configured values.

| featureName | FeatureParameter      | Type    | Remark                                               |
|-------------|-----------------------|---------|------------------------------------------------------|
| CodedMains  |                       | String  | Case Insensitive                                     |
|             | FadeTime              | Integer | 0 – 15                                               |
|             | FastFadeTime          | Integer | 0 – 27                                               |
|             | FallbackDetectionTime | Integer | 1 – 255                                              |
|             | PowerOnLevel          | Integer | 0 – 100 %                                            |
|             | FallbackScene         | Integer | 0 – 100 %                                            |
|             | Scenex                | Integer | x = 1 – 10<br>max 10 scenes are allowed<br>0 – 100 % |

Table 7: Feature call for Coded Mains

## EXAMPLE

```
[
{
  "featureName": "CodedMains",
  "featureParameters": [
    {
      "FadeTime": 7,
      "FastFadeTime": 27,
      "FallbackDetectionTime": 5,
      "PowerOnLevel": 100,
      "FallbackScene": 100,
      "Scene1": 0,
      "Scene2": 1,
      "Scene3": 10,
      "Scene4": 35,
      "Scene5": 50,
      "Scene6": 60,
      "Scene7": 75,
      "Scene8": 80,
      "Scene9": 85,
      "Scene10": 90,
      "Scene11": 95,
      "Scene12": 100
    }
  ]
}
```

## Dimming Interface

This feature enables the selection of the dimming interface (Dynadimmer, Lineswitch, etc.). If however, a DALI interface is present and a command is received it will automatically switch over to DALI.

| featureName      | FeatureParameter  | Type   | Remark                                                                                                                                                                                                               |
|------------------|-------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DimmingInterface |                   | String | Case Insensitive                                                                                                                                                                                                     |
|                  | SelectedInterface | String | Case Sensitive<br><a href="#">Dynadimmer</a> , <a href="#">AmpDim</a> , <a href="#">LineSwitch</a> , <a href="#">ZTV</a> and <a href="#">Dali</a>                                                                    |
|                  | OverrideInterface | String | Only Dynadimmer as SelectedInterface can be overridden by:<br>"LineSwitch"<br><br>Case Sensitive String<br><a href="#">LineSwitch</a> , <a href="#">ZTV</a><br><br>OverrideInterface can contain multiple interfaces |

Table 8: Feature call for Dimming Interface

### EXAMPLE

```
[
  {
    "featureName": "DimmingInterface",
    "featureParameters": [
      {
        "SelectedInterface": "Dynadimmer",
        "OverrideInterface": ["LineSwitch"]
      }
    ]
  }
]
```

## Dynadimmer

This feature enables autonomous dimming based on time or on the switch-on/switch-off behavior of the grid.

| featureName | FeatureParameter  | Type    | Remark                                                                                                                                                                        |
|-------------|-------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dynadimmer  |                   | String  | Case Insensitive                                                                                                                                                              |
|             | DynadimmerEnabled | Boolean | Optional – only when driver does not have interface selection                                                                                                                 |
|             | MidnightShift     | Integer | the midnight shift (value in minutes (0)) depends on the geographical location which can be calculated by a separate API call (Refer Midnight Shift Calculator section below) |
|             | TimeReference     | Boolean | true/false                                                                                                                                                                    |
|             | Scenex            | Integer | x = 1 – 5<br>max 5 scenes are allowed                                                                                                                                         |
|             | Hour              | Integer | 1 – 24                                                                                                                                                                        |
|             | Minute            | Integer | 1 – 60                                                                                                                                                                        |
|             | Dim Level         | Integer | 1 – 100 %<br>Value in %                                                                                                                                                       |
|             | FadeTime          | Integer | 0 – 255 seconds                                                                                                                                                               |
|             | OverrideMode      | Boolean | Optional; only when driver does not have interface selection                                                                                                                  |

Table 9: Feature call for Dynadimmer

#### EXAMPLE

```
[
  {
    "featureName": "Dynadimmer",
    "featureParameters": [
      {
        "DynadimmerEnabled": false,
        "MidnightShift": 0,
        "TimeReference": false,
        "Scene1": {
          "DimLevel": 50,
          "FadeTime": 180,
          "Minute": 0,
          "Hour": 0
        },
        "Scene2": {
          "DimLevel": 100,
          "FadeTime": 180,
          "Minute": 0,
          "Hour": 6
        }
      }
    ]
  }
]
```

## Dynadimmer 10 scenes\*

This feature enables autonomous dimming based on time or on the switch-on/switch-off behavior of the grid.

| featureName | FeatureParameter  | Type    | Remark                                                                                                                                                                        |
|-------------|-------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dynadimmer  |                   | String  | Case Insensitive                                                                                                                                                              |
|             | DynadimmerEnabled | Boolean | Optional – only when driver does not have interface selection                                                                                                                 |
|             | MidnightShift     | Integer | the midnight shift (value in minutes (0)) depends on the geographical location which can be calculated by a separate API call (Refer Midnight Shift Calculator section below) |
|             | TimeReference     | Boolean | true/false                                                                                                                                                                    |
|             | Scenex            | Integer | x = 1 – 10<br>max 5 scenes are allowed                                                                                                                                        |
|             | Hour              | Integer | 1 – 24                                                                                                                                                                        |
|             | Minute            | Integer | 1 – 60                                                                                                                                                                        |
|             | Dim Level         | Integer | 1 – 100 %<br>Value in %                                                                                                                                                       |
|             | FadeTime          | Integer | 0 – 255 seconds                                                                                                                                                               |
|             | OverrideMode      | Boolean | Optional; only when driver does not have interface selection                                                                                                                  |

Table 10: Feature call for Dynadimmer

\* 10 scenes feature currently only applicable for 929003876980 Xi LP 200W 0.3-1.05A S1 WL I165

## EXAMPLE

```
[
  {
    "featureName": "Dynadimmer",
    "featureParameters": [
      {
        "DynadimmerEnabled": false,
        "MidnightShift": 0,
        "TimeReference": false,
        "Scene1": {
          "DimLevel": 50,
          "FadeTime": 180,
          "Minute": 0,
          "Hour": 0
        },
        "Scene2": {
          "DimLevel": 100,
          "FadeTime": 180,
          "Minute": 0,
          "Hour": 6
        }
      },
      {
        "Scene3": {
          "DimLevel": 75,
          "FadeTime": 180,
          "Minute": 0,
          "Hour": 24
        }
      },
      {
        "Scene4": {
          "DimLevel": 50,
          "FadeTime": 180,
          "Minute": 0,
          "Hour": 8
        }
      },
      {
        "Scene5": {
          "DimLevel": 55,
          "FadeTime": 180,
          "Minute": 0,
          "Hour": 9
        }
      },
      {
        "Scene6": {
          "DimLevel": 70,
          "FadeTime": 180,
          "Minute": 0,
          "Hour": 21
        }
      },
      {
        "Scene7": {
          "DimLevel": 65,
          "FadeTime": 180,
          "Minute": 0,
          "Hour": 22
        }
      }
    ]
  }
]
```

```
"Scene8": {  
  "DimLevel": 70,  
  "FadeTime": 180,  
  "Minute": 0,  
  "Hour": 23  
},  
"Scene9": {  
  "DimLevel": 80,  
  "FadeTime": 180,  
  "Minute": 0,  
  "Hour": 1  
}  
"Scene10": {  
  "DimLevel": 55,  
  "FadeTime": 180,  
  "Minute": 0,  
  "Hour": 3  
}  
]  
}  
]
```



## Dynadimmer 10 scenes with CCT

This feature enables autonomous dimming based on time or on the switch-on/switch-off behavior of the grid.

| featureName | FeatureParameter  | Type    | Remark                                                                                                                                                                        |
|-------------|-------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dynadimmer  |                   | String  | Case Insensitive                                                                                                                                                              |
|             | DynadimmerEnabled | Boolean | Optional – only when driver does not have interface selection                                                                                                                 |
|             | MidnightShift     | Integer | the midnight shift (value in minutes (0)) depends on the geographical location which can be calculated by a separate API call (Refer Midnight Shift Calculator section below) |
|             | TimeReference     | Boolean | true/false                                                                                                                                                                    |
|             | Scenex            | Integer | x = 1 - 10<br>max 10 scenes are allowed                                                                                                                                       |
|             | Hour              | Integer | 1 - 24                                                                                                                                                                        |
|             | Minute            | Integer | 1 - 60                                                                                                                                                                        |
|             | Dim Level         | Integer | 1 - 100 %<br>Value in %                                                                                                                                                       |
|             | FadeTime          | Integer | 0 - 255 seconds                                                                                                                                                               |
|             | OverrideMode      | Boolean | Optional; only when driver does not have interface selection                                                                                                                  |
|             | Cct               | Integer | CCT Value in Kelvin.<br>Range 1500-9999                                                                                                                                       |

Table 11: Feature call for Dynadimmer

## EXAMPLE

```
{
  "featureName": "Dynadimmer",
  "featureParameters": [
    {
      "DynadimmerEnabled": false,
      "MidnightShift": 0,
      "TimeReference": false,
      "Scene1": {
        "DimLevel": 50,
        "FadeTime": 180,
        "Minute": 0,
        "Cct": 65535,
        "Hour": 0
      },
      "Scene2": {
        "DimLevel": 100,
        "FadeTime": 180,
        "Minute": 0,
        "Cct": 65535,
        "Hour": 6
      }
    }
  ]
}
```

## Midnight Shift Calculator

The midnight shift depends on the geographical location. Enter the feature parameters to calculate the midnight shift in minutes. You can use the response value as input to configure Dynadimmer (Refer Dynadimmer section).

| featureName | featureParameter | Type    | Remark                                        |
|-------------|------------------|---------|-----------------------------------------------|
|             | latitude         | Integer | Degrees cannot be negative                    |
|             | degrees          | Integer | 0 – 89                                        |
|             | minutes          | Integer | 0-60                                          |
|             | seconds          | Integer | 0-60                                          |
|             | hemisphere       | String  | North/South/East and West                     |
|             | longitude        | Integer | Degrees cannot be negative                    |
|             | degrees          | Integer | 0 – 179                                       |
|             | minutes          | Integer | 0-60                                          |
|             | seconds          | Integer | 0-60                                          |
|             | hemisphere       | String  | North/South/East and West                     |
|             | timeZone         | Integer | GMT+1 enter 1, for GMT-1 enter -1, and so on. |
|             | daylightSaving   | Boolean | true/false                                    |

Table 12: Feature call for Midnight Shift Calculator

#### EXAMPLE

```
{
  "latitude": {
    "degrees": 1,
    "minutes": 0,
    "seconds": 0,
    "hemisphere": "North"
  },
  "longitude": {
    "degrees": 1,
    "minutes": 0,
    "seconds": 0,
    "hemisphere": "West"
  },
  "timeZone": 0,
  "daylightSaving": false
}
```

#### *DC Emergency*

This feature enables switch over to a lower light level when the grid has switched over from AC to DC.

| featureName | FeatureParameter          | Type    | Remark                        |
|-------------|---------------------------|---------|-------------------------------|
| DcEmergency |                           | String  | Case Insensitive              |
|             | DcEmergencyLevel          | Integer | 157 - 254<br>85 ~1%, 25 ~100% |
|             | DcEmergencyEnabled        | Boolean | true/false                    |
|             | DcEmergencyDimmingEnabled | Boolean | (MO: "Allow dimming")         |
|             | LevelInArcPower           | Boolean | true/false                    |

Table 13: Feature call for DC Emergency

#### EXAMPLE

```
[
  {
    "featureName": "DcEmergency",
    "featureParameters": [
      {
        "DcEmergencyLevel": 157,
        "LevelInArcPower": false,
        "DcEmergencyEnabled": true,
        "DcEmergencyDimmingEnabled": true
      }
    ]
  }
]
```

#### *Minimum Dim Level*

This feature defines the minimum dim level.

| featureName | FeatureParameter | Type    | Remark           |
|-------------|------------------|---------|------------------|
| MinDimLevel |                  | String  | Case Insensitive |
|             | Enabled          | Boolean | true/false       |
|             | MinDimLevel      | Integer | Value in %       |

Table 14: Feature call for Minimum Dim Level

Example

```
[
  {
    "featureName": "MinDimLevel",
    "featureParameters": [
      {
        "Enabled": true,
        "MinDimLevel": 10
      }
    ]
  }
]
```

## LineSwitch

This feature enables the selection of a pre-configured light level via an extra pilot line.

| featureName | FeatureParameter          | Type    | Remark                                                                                |
|-------------|---------------------------|---------|---------------------------------------------------------------------------------------|
| LineSwitch  |                           | String  | Case Insensitive                                                                      |
|             | HighVLevel                | Integer | 0 - 100 Percentage                                                                    |
|             | LowVlevel                 | Integer | 0 - 100 Percentage                                                                    |
|             | FadeUpTime                | Integer | 0 - 90 Seconds                                                                        |
|             | SwitchOffDelayTime        | Integer | 0 - 1800 Seconds                                                                      |
|             | FadeDownTime              |         |                                                                                       |
|             | LineswitchEnabled         | Boolean | Optional. When for DimmingInterface: Lineswitch is selected: LineswitchEnabled = true |
|             | 2ndInativeDimLevel        | Integer | 0 - 100 Percentage                                                                    |
|             | 2ndInactiveLevelDelayTime | Integer | 0 - 1440 minutes                                                                      |
|             | 2ndInativeLevelEnabled    | Boolean | true/false                                                                            |

Table 15: Feature call for Lineswitch

#### EXAMPLE

```
[
  {
    "featureName": "LineSwitch",
    "featureParameters": [
      {
        "HighVLevel": 100,
        "LowVLevel": 50,
        "FadeUpTime": 0,
        "SwitchOffDelayTime": 0,
        "FadeDownTime": 0,
        "2ndInactiveDimLevel": 0,
        "2ndInactiveLevelDelayTime": 0,
        "2ndInactiveLevelEnabled": true
      }
    ]
  }
]
```

## DALI Power Supply Unit (DALIPSU)

With this feature the power for an external device can be switched on or off.

| featureName | FeatureParameter | Type    | Remark                                     |
|-------------|------------------|---------|--------------------------------------------|
| DALIPSU     |                  | String  | Case Insensitive                           |
|             | Enabled          | Boolean | true/false                                 |
|             | HbEnable         | Boolean | Optional,<br>driver specific<br>true/false |
|             | LastGaspEnable   | Boolean | Optional,<br>driver specific<br>true/false |

Table 16: Feature call for DALI Power Supply Unit

### EXAMPLE

```
[
  {
    "featureName": "DALIPSU",
    "featureParameters": [
      {
        "Enabled": true,
        "HbEnable": true,
        "LastGaspEnable": false
      }
    ]
  }
]
```



## DTL (Driver Temperature Limit)

This feature protects the device and indirect the module from overheating.

| featureName | FeatureParameter    | Type    | Remark                      |
|-------------|---------------------|---------|-----------------------------|
| Dtl         |                     | String  | Case Insensitive            |
|             | DtlOutputPercentage | Integer | 0-100                       |
|             | DtlDimStart         | Integer | Driver Specific             |
|             | DtlDimStop          | Integer | Optional<br>Driver Specific |
|             | DtlLampOff          | Integer | Optional<br>Driver Specific |
|             | DtlEnabled          | Boolean | Optional<br>true/false      |

Table 17: Feature call for Driver Temperature Limit

### EXAMPLE

```
[
  {
    "featureName": "Dtl",
    "featureParameters": [
      {
        "DtlEnabled": true,
        "DtlDimStart": 70,
        "DtlDimStop": 90,
        "DtlLampOff": 98,
        "DtlOutputPercentage": 60
      }
    ]
  }
]
```

## Luminaire Info format (DALI part 251)

This feature enables the configuration of luminaire fixture information (according DALI part 251/ANSI C137.4). This information can be used by a control or traceability system to inform the users.

| featureName   | FeatureParameter         | Type    | Remark                                                                                        |
|---------------|--------------------------|---------|-----------------------------------------------------------------------------------------------|
| LumInfoFormat |                          | String  | Case Insensitive                                                                              |
|               | OemGtin                  | String  | 13 digits                                                                                     |
|               | OemIdentification        | String  |                                                                                               |
|               | UseDeviceUid             | Boolean | true/false                                                                                    |
|               | ContentIdentifier        | Integer | 0, 3, 4 & 5                                                                                   |
|               | LuminaireManufactureYear | Integer | 1 – 99                                                                                        |
|               | LuminaireManufactureWeek | Integer | 1 – 99                                                                                        |
|               | LuminaireManufactureYear | Integer | 1 – 99                                                                                        |
|               | Use DynamicDateIndicator | Boolean | true/false                                                                                    |
|               | NominalInputPower        | Integer | 0 – 65535                                                                                     |
|               | PowerMinDim              | Integer | 0 – 65535                                                                                     |
|               | MinAcMainsVoltage        | Integer | 0 – 65535                                                                                     |
|               | MaxAcMainsVoltage        | Integer | 0 – 65535                                                                                     |
|               | NominalLightOutput       | Integer | 0 – 16777215                                                                                  |
|               | CRI                      | Integer | 0 – 255                                                                                       |
|               | CCT                      | Integer | 0 – 65535                                                                                     |
|               | DistributionType         | Integer | 0 – 255                                                                                       |
|               | LuminaireColor           | String  | This is a String of hexadecimal ascii values. Only the printable ascii character are allowed. |
|               | LuminaireIdentification  | String  | This is a String of hexadecimal ascii values. Only the printable ascii character are allowed. |
|               | AdditionalInfo           | String  | This is a String of hexadecimal ascii values. Only the printable ascii character are allowed. |

Table 18: Feature call for Luminaire Info format (DALI part 251)

Example

```
[
  {
    "featureName": "LumInfoFormat",
    "featureParameters": [
      {
        "ContentIdentifier": 3,
        "OemGtin": "99999999999999",
        "OemIdentification": "",
        "UseDeviceUid": true,
        "LuminaireManufactureYear": 22,
        "LuminaireManufactureWeek": 40,
        "UseDynamicDateIndicator": true,
        "NominalInputPower": 0,
        "PowerMinDim": 0,
        "MinAcMainsVoltage": 194,
        "MaxAcMainsVoltage": 264,
        "NominalLightOutput": 3000,
        "CRI": 90,
        "CCT": 2700,
        "DistributionType": 2,
        "LuminaireColor": "",
        "LuminaireIdentification": "",
        "AdditionalInfo": ""
      }
    ]
  }
]
```

## AST (Adjustable Start-up Time)

This feature enables the adjustment of the ramp-up time of the LED module at switching ON.

| featureName | FeatureParameter      | Type    | Remark           |
|-------------|-----------------------|---------|------------------|
| AST         |                       | String  | Case Insensitive |
|             | AdjustableStartupTime | Integer | 0 - 1000         |

Table 19: Feature call for AST- Adjustable Start-up Time

### EXAMPLE

```
[
  {
    "featureName": "AST",
    "featureParameters": [
      {
        "AdjustableStartupTime": 700
      }
    ]
  }
]
```

## ZTV (Zero to Ten Volt)

This feature enables control of the light level through analog Zero To Ten Volt input. 0-10V is used in North-America, in Europe this interface is standardized as 1-10V.

| featureName | FeatureParameter  | Type    | Remark           |
|-------------|-------------------|---------|------------------|
| ZTV         |                   | String  | Case Insensitive |
|             | ZtvMinDimLevel    | Integer | 5 - 100          |
|             | ZtvCurveSelection | Integer | Driver specific  |
|             | ZtvEnabled        | Boolean | true/false       |

Table 20: Feature call for ZTV- Zero to Ten Volt

### EXAMPLE

```
[
  {
    "featureName": "Ztv",
    "featureParameters": [
      {
        "ZtvMinDimLevel": 10,
        "ZtvCurveSelection": 1,
        "ZtvEnabled": true
      }
    ]
  }
]
```

## Amp Dim

This feature enables control of the light level by regulating the mains voltage.

| featureName | featureParameter | Type    | Remark           |
|-------------|------------------|---------|------------------|
| AmpDim      |                  | String  | Case Insensitive |
|             | VmainsStart      | Integer | 120V - 277V      |
|             | VmainsStop       | Integer | 70V - 230V       |
|             | StartDimLevel    | Integer | 30% - 100%       |
|             | StopDimLevel     | Integer | 10% - 60%        |

Table 21: Feature call for AmpDim

### EXAMPLE

```
[
  {
    "featureName": "AmpDim",
    "featureParameters": [
      {
        "VmainsStart": 230,
        "VmainsStop": 195,
        "StartDimLevel": 100,
        "StopDimLevel": 60
      }
    ]
  }
]
```

## MTP (Module Temperature Protection)

This feature enables protection of the module from overheating.

| featureName | featureParameter | Type    | Remark                                                                                                                                    |
|-------------|------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------|
| MTP         |                  | String  | Case Insensitive                                                                                                                          |
|             | SelectedNtc      |         | Case Sensitive<br><a href="#">Ntc1</a> , <a href="#">Ntc2</a> ,<br><a href="#">PhilipsLedLightEngines</a> , and<br><a href="#">Custom</a> |
|             | NtcBeta          | Integer | Beta value between 25°C and 85°C<br>(Beta 25/85).<br>2000 – 5000 Ohm                                                                      |
|             | NtcResistance    | Integer | 1000 – 50000 Ohm<br>R_NTC at 25°                                                                                                          |
|             | DimLevel         | Integer | Min dim level – 100%                                                                                                                      |
|             | DimStart         | Integer | Driver Specific                                                                                                                           |
|             | DimStop          | Integer | Driver Specific                                                                                                                           |
|             | Enabled          | Boolean | true/false                                                                                                                                |

Table 22: Feature call for MTP – Module Temperature Protection

### EXAMPLE

For NTC1 (or NTC2):

```
[
{
  "featureName": "MTP",
  "featureParameters": [
    {
      "SelectedNtc": "Ntc1",
      "DimLevel": 10,
      "DimStart": 70,
      "DimStop": 80,
      "Enabled": true
    }
  ]
}
```

For Philips LED Light Engines:

```
[
  {
    "featureName": "MTP",
    "featureParameters": [
      {
        "SelectedNtc": "PhilipsLedLightEngines",
        "DimLevel": 10,
        "Enabled": true
      }
    ]
  }
]
```

For Custom:

```
[
  {
    "featureName": "MTP",
    "featureParameters": [
      {
        "SelectedNtc": "Custom",
        "NtcBeta": 3000,
        "NtcResistance": 25000,
        "DimLevel": 10,
        "DimStart": 70,
        "DimStop": 80,
        "Enabled": true
      }
    ]
  }
]
```

## Corridor

This feature is an extension to Touch and Dim. Both features are controlled using mains cycles presented on the Touch and Dim or DALI interface.

| featureName | featureParameter | Type    | Remark           |
|-------------|------------------|---------|------------------|
| Corridor    |                  | String  | Case Insensitive |
|             | NormalLevel      | Integer | 1-254            |
|             | BackgroundLevel  | Integer | 1-254            |
|             | FadeTimeIndex    | Integer | 0-15             |
|             | ProlongTime      | Integer | 0-2540           |
|             | ActivationTime   | Integer | 0-254            |
|             | DelayTime        | Integer | 0-2550           |
|             | CorridorEnabled  | Boolean | true/false       |

Table 23: Feature call for Corridor

### EXAMPLE

```
[
{
  "featureName": "Corridor",
  "featureParameters": [
    {
      "NormalLevel": 254,
      "BackgroundLevel": 170,
      "FadeTimeIndex": 12,
      "ProlongTime": 1800,
      "ActivationTime": 55,
      "DelayTime": 20,
      "CorridorEnabled": true
    }
  ]
}
```



## Touch and Dim

This feature enables the configuration of a Touch and Dim controller, which is a simple dim input used to control the dimming and switching of lamps via a device.

| featureName | featureParameter   | Type    | Remark           |
|-------------|--------------------|---------|------------------|
| TouchDim    |                    | String  | Case Insensitive |
|             | PowerOnLevel       | Integer | Driver Specific  |
|             | IgnoreToggleLimits | Integer | true/false       |
|             | TouchDimEnabled    | Boolean | true/false       |

Table 24: Feature call for Touch and Dim

### EXAMPLE

```
[
  {
    "featureName": "TouchDim",
    "featureParameters": [
      {
        "PowerOnLevel": 255,
        "IgnoreToggleLimits": false,
        "TouchDimEnabled": true
      }
    ]
  }
]
```

## DiiA 253

This feature enables the configuration of Luminaire maintenance data, according to DiiA 253 Maintenance.

| featureName        | featureParameter     | Type    | Remark           |
|--------------------|----------------------|---------|------------------|
| DiiA253Maintenance |                      | String  | Case Insensitive |
|                    | RatedLife            | Integer | kilohours        |
|                    | ReferenceTemperature | Integer | Celsius          |
|                    | RatedStarts          | Integer | 100 starts       |

Table 25: Feature call for DALI 253M

### EXAMPLE

```
[
  {
    "featureName": "DiiA253Maintenance",
    "featureParameters": [
      {
        "RatedLife": 255,
        "ReferenceTemperature": 195,
        "RatedStarts": 65535
      }
    ]
  }
]
```

## OWP (OEM Write Protection)

This feature enables the protection of one or multiple features. It prevents installers or others to alter the values which could damage the luminaire.

| featureName | featureParameter | Remark                                                                                                                                                                                                                                           |
|-------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Owp         |                  | Case insensitive                                                                                                                                                                                                                                 |
|             | OwpEnabled       | true/false                                                                                                                                                                                                                                       |
|             |                  | Features are case sensitive. Use the following<br><br>Dynadimmer, CLO, CLOLite, DALIPSU,<br>LumInfoFormat, DCEmergency, MTP, DTL,<br>FlexTune, LineSwitch, Corridor, AmpDim, ZTV,<br>TouchDim, AST, MinDimLevel, ALO, ALOMin,<br>AOC, CodedMains |
|             | OwpPassword      |                                                                                                                                                                                                                                                  |

Table 26: Feature call for OWP – OEM Write Protection

### EXAMPLE

```
[
{
  "featureName": "Owp",
  "featureParameters": [
    {
      "OwpEnabled": [
        "Aoc",
        "LumInfoFormat"
      ],
      "OwpPassword": [
        1,
        2,
        3,
        4
      ]
    }
  ]
}
```

## FlexTune

This feature enables the control of the color of the luminaire.

| featureName | featureParameter   | Type   | Remark                                                                                                                       |
|-------------|--------------------|--------|------------------------------------------------------------------------------------------------------------------------------|
| FlexTune    |                    | String | Case Insensitive                                                                                                             |
|             | CoolCct            | number | Configuration of coolest CCT (highest K)                                                                                     |
|             | CoolRatedLm        | number | Rated Lumen of cool LED at rated current (0-65535)                                                                           |
|             | CoolRatedCurrent   | number | Rated Current of cool LED (0-10000)                                                                                          |
|             | WarmCct            | number | Configuration of warmest CCT (lowest K)                                                                                      |
|             | WarmRatedLm        | number | Rated Lumen of warm LED at rated current (0-65535)                                                                           |
|             | WarmRatedCurrent   | number | Rated Current of warm LED (0-10000)                                                                                          |
|             | LightOutputOverCct | string | Selection via Flexible or Constant                                                                                           |
|             | CoolAOC            | number | Current configuration for a defined light color (300 – 1050)                                                                 |
|             | WarmAOC            | number | Hidden, see ``FlexTune Application Note`` for more information, Current configuration for a defined light color (300 – 1050) |
|             | CctOffset          | number | Offset of color (in kelvin)                                                                                                  |

Table 27: Feature call for FlexTune

### EXAMPLE

```
[
{
  "featureName": "FlexTune",
  "featureParameters": [
    {
      "CoolCct": 7042,
      "CoolRatedLm": 2200,
      "CoolRatedCurrent": 308,
      "WarmCct": 2198,
      "WarmRatedLm": 2040,
      "WarmRatedCurrent": 308,
      "LightOutputOverCct": "Constant",
      "CoolAOC": 700,
      "CctOffset": 0
    }
  ]
},
]
```

## Multi Config Mode

This feature enables the selection of the configuration mode of multi config devices according DiiA specification.

| featureName     | featureParameter  | Type   | Remark              |
|-----------------|-------------------|--------|---------------------|
| multiconfigmode |                   | String | Case Insensitive    |
|                 | ConfigurationMode | String | 2x207 or 1x209 (Tc) |

Table 28: Feature call for Multi Config Mode

### EXAMPLE

```
{  
  "featureName": "multiconfigmode",  
  "featureParameters": [  
    {  
      "ConfigurationMode": "1x209 (Tc)"  
    }  
  ],  
}
```

## Multiple feature configuration with a single API call

The below syntax is an example to configure multiple features in a single API call. Please note that the example does not include all the supported features.

### EXAMPLE

```
[
  {
    "featureName": "AOC",
    "featureParameters": [
      {
        "AocEnabled": true,
        "AocCurrent": 500
      }
    ]
  },
  {
    "featureName": "CLO",
    "featureParameters": [
      {
        "CloEnabled": true,
        "CloPoint1": {
          "Time": 0,
          "Percentage": 80
        },
        "CloPoint2": {
          "Time": 100,
          "Percentage": 100
        }
      }
    ]
  },
  {
    "featureName": "DtI",
    "featureParameters": [
      {
        "DtIOutputPercentage": 50,
        "DtIDimStart": 10,
        "DtIDimStop": 88,
        "DtILampOff": 93
      }
    ]
  }
]
```

## Feature file Generation



```
1 <?xml version="1.0" encoding="UTF-8" standalone="yes"?>
2 <SaveData xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xsd="http://www.w3.org/2001/
  XMLSchema" Version="11" ToolType="Signify MultiOne API" configurationId =
  "ad8ab4f2-f52d-410d-9f0a-39d9c9d6c4a9" TimeStamp = "2022-09-28T13:55:18.516Z" ToolVersion="9.8.3">
3   <DeviceInfo>
4     <DeviceName>Xi FP 165W 0.3-1.0A SNLDAE 230V C170 sXt</DeviceName>
5     <DeviceVersion>2.0</DeviceVersion>
6     <DeviceTwelveNc>929002875006</DeviceTwelveNc>
7   </DeviceInfo>
8   <OemWriteProtection />
9   <Features>
10    <FeatureData>
11      <FeatureName>A0C</FeatureName>
12      <FeatureVersion>1</FeatureVersion>
13      <FeatureIdExtension xsi:nil="true" />
14      <ItemKeys>
15        <string>Value</string>
```

The above figure shows an example of generated content for a feature file from Postman platform. The content can then be saved by clicking 'Save Response'. It must be saved in 'xml' file formats to be compatible with MultiOne Engineering and MultiOne Workflow. Please note that Feature files are not stored in Signify Database.

## References

*HubSpot*. (2022). Retrieved from HubSpot, Inc: <https://blog.hubspot.com/website/api-calls>