|  |
| --- |
| Controller Message Protocol |
| Version 0.17.04.12 |
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# Introduction

## Overview

Controller Message Protocol (CMP)主要提供前端與後端做為一個快速溝通與訊息傳遞的通訊協定，Device端透過CMP可以傳送與接收Server端送來的指令與服務。

specification.emf

## Glossary

|  |  |
| --- | --- |
| API | Application Programming Interface |
| MSB | Most Significant Bit |
| CMP | Control Message Protocol |
| CMPS | Control Message Protocol Server |
| PDU | Protocol Data Unit |
| HEADER | Leading portion of the CMP message, common to all CMP PDUs |
| SPS | Smart Power Station |
| MDM | Mobile Device Manager |
| SER | Social Event Radar |

# Controller Message Protocol

The Controller Message Protocol (CMP) is designed to provide a flexible data communications interface for transfer of message data between a server and client.

CMP is based on the exchange of request and response protocol data units (PDUs) between the client and the server over an underlying TCP/IP network connection.

## CMP PDU Type and Format Definitions

|  |  |
| --- | --- |
| **Integer** | An unsigned value with the defined number of octets.  The octets will always be transmitted MSB first (Big Endian). |
| **C-Octet String** | A series of ASCII characters terminated with the NULL character. |
| **C-Octet String**  **(Decimal)** | A series of ASCII characters, each character representing a decimal digit (0 - 9) and terminated with the NULL character. |
| **C-Octet String**  **(Hex)** | A series of ASCII characters, each character representing a  Hexadecimal digit (0 - F) and terminated with the NULL character. |
| **Octet String** | A series of octets, not necessarily NULL terminated. |
| **Octet String**  **(Decimal)** | A series of ASCII characters, each character representing a decimal digit (0 - 9) and not necessarily NULL terminated. |

## CMP PDU Format

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| PDU Header (Mandatory) | | | | | PDU Body (Optional) |
| Command  Length | Command  Id | Command  Status | Sequence  Number | PDU Body | |
| 4 octets | Length = (Command Length value - 4) Octets | | | | |

## CMP PDU Layout

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| H  E  A  D  E  R | CMP PDU Field | Size Octets | Type | Description |
| command length | 4 | Integer | The command length field defines the total octet length of the CMP PDU packet including the length field. |
| command id | 4 | Integer | The command id field identifies the particular CMP PDU.  A unique command identifier is allocated to each CMP request PDU in the range:  0x00000000 to 0x000000 FF  A unique command identifier is also allocated to each CMP response PDU in the range:  0x80000000 to 0x800000FF  The complete list of CMP command codes is defined in 3.1.2 |
| command status | 4 | Integer | The command status field indicates the success or failure of a CMP request.  It is relevant only in the CMP response PDU and it must contain a NULL value in a CMP request PDU.  The complete list of CMP Error codes is defined in 3.1.3 |
| sequence number | 4 | Integer | This field contains a sequence number which allows CMP requests and responses to be associated for correlation purposes. The use of sequence numbers for message correlation allows CMP PDUs to be exchanged asynchronously.  The sequence number should be increased monotonically for each request PDU and must be preserved in the associated CMP response PDU.  The sequence number may range from:  0x00000001 to 0x7FFFFFFF. |
| B  O  D  Y | Mandatory Parameters | Var. | mixed | A list of mandatory parameters corresponding to that CMP PDU defined in the command id field. |
| Optional Parameters | Var. | mixed | A list of Optional Parameters corresponding to that CMP PDU defined in the command id field. |

## CMP Session Description

A CMP session between a server and a client is initiated by the client first establishing a network connection with the server and then issuing a CMP Bind request to open a CMP session.

session.emf

CMP Client and CMP Server entire communication process, mainly divided into Bind, Commands, Unbind three parts.

## CMP PDU Definition

### Bind request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to the binding request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number.  The associated bind response PDU will echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Id | Var. | C-Octet String | Mandatory Parameter.  JSON Data Format.  Collection：  (name/value data type)  id/string |  |

### Bind response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to the binding response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the sequence number of original bind request. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Initial request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to overall length of PDU | 3.1.1 |
| command id | 4 | Integer | Value corresponding to initial request | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated initial response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Service Type | 4 | Integer | Mandatory Parameter.  Reference Service type. | Error: Reference source not found |
|  |  |  |  |  |

### Initial response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | Value corresponding to initial response | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original initial requests PDU | 3.1.4 |
| B  O  D  Y | Initial Data | Var. | C-Octet String | Mandatory Parameter.  Information of initial. | 3.2.2 |
|  |  |  |  |  |

### Sign up request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to overall length of PDU | 3.1.1 |
| command id | 4 | Integer | Value corresponding to sign up request | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated sign up response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Service Type | 4 | Integer | Mandatory Parameter.  Reference Service type. | 3.2.1 |
| Sign up Data | Var. | C-Octet String | Mandatory Parameter.  JSON Data of sign up. |  |

### Sign up response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | Value corresponding to sign up response | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original sign up requests PDU | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Authentication request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | Value corresponding to authentication request | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated authentication response PDU will echo this sequence number. | 3.1.4 |
| B  O  D  Y | Service Type | 4 | Integer | Mandatory Parameter.  Reference Service type. | Error: Reference source not found |
| Authentication Data | Var. | C-Octet String | Mandatory Parameter.  Information of authentication. |  |

### Authentication response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | Value corresponding to authentication response | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the sequence number of original authentication request PDU. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Access log request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to overall length of PDU | 3.1.1 |
| command id | 4 | Integer | Value corresponding to access logs request | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated access log response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Service Type | 4 | Integer | Mandatory Parameter.  Reference Service type. | 3.2.1 |
| Access log Data | Var. | C-Octet String | Mandatory Parameter. |  |

### Access log response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | Value corresponding to access log response | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original access logs requests PDU | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Enquire link request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to enquire link request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated enquire link response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Enquire link response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to enquire link response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original inquiry link requests PDU. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Unbind request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to unbind request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated unbind response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Unbind response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to overall length of PDU | 3.1.1 |
| command id | 4 | Integer | Value corresponding to unbind response | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original unbinds request PDU. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Update request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to update request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated update response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Update response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to update response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original update request PDU. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Reboot request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to reboot request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated reboot response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Reboot response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to reboot response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original reboot request PDU. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Configuration request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | Value corresponding to configuration request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Configuration item | Var. | C-Octet  String | Mandatory Parameter.  Item of Configuration. | Error: Reference source not found |
| Configuration value | Var. | C-Octet  String | Mandatory Parameter.  The value of Configuration. | Error: Reference source not found |

### Configuration response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | Value corresponding to configuration response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of the original configuration request PDU. | 3.1.4 |
| B  O  D  Y | Configuration result | 1 | Octet  String | Mandatory Parameter.  “Y”：success  “N”：fail | Error: Reference source not found |
|  |  |  |  |  |

### Power port setting request syntax

This syntax is defined for smart charge station.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to power port setting request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Wire number | 4 | Integer | Mandatory Parameter. | Error: Reference source not found |
| Port number | 4 | Integer | Mandatory Parameter. | Error: Reference source not found |
| Power State | 1 | Octet String  (Decimal) | Mandatory Parameter.  ‘0’：Power Off  ‘1’：Power On | Error: Reference source not found |
| Controller ID | Var. | C-Octet String | Optional Parameter.  Set to a unique recognition ID. |  |

### Power port setting response syntax

This syntax is defined for smart charge station.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to power port setting response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original power port setting request PDU. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### Power port state requests syntax

This syntax is defined for smart charge station.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to power port status request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Wire number | 4 | Integer | Mandatory Parameter. | Error: Reference source not found |
| Controller ID | Var. | C-Octet String | Optional Parameter.  Set to a unique recognition ID. |  |

### Power port state response syntax

This syntax is defined for smart charge station.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to power port status response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original power port setting request PDU. | 3.1.4 |
| B  O  D  Y | Power port status | Var. | C-Octet  String | Mandatory Parameter. | Error: Reference source not found |
|  |  |  |  |  |

### SER API Sign in requests syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to ser api sign in request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Account | Var. | C-Octet String | Mandatory Parameter. |  |
| Password | Var. | C-Octet String | Mandatory Parameter. |  |

### SER API Sign in response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to ser api sign in response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original ser api sign in request PDU. | 3.1.4 |
| B  O  D  Y | Token | Var. | C-Octet  String | Mandatory Parameter. |  |
| App ID | Var. | C-Octet  String | Mandatory Parameter. |  |

### RDM Login requests syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to SER MDM Login request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Login Data | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  (name/value data type)  account/string  password/string  id/string  device/integer (Ref.3.2.4)  gcmid/string  model/string  Example：  {"account":"akado",  "password\":"oxymoron",  "id":"000c29d0013c",  "device":0,  "gcmid":"xxxxxx",  "model":"HM2LTU84P"} |  |
|  |  |  |  |  |

### RDM Login response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to SER MDM Login response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original SER MDM Login request PDU. | 3.1.4 |
| B  O  D  Y | Login Result | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  (name/value data type)  result/integer (Ref.3.2.3)  Example：  {"result":0} | 3.2.3 |
|  |  |  |  |  |

### RDM Logout requests syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to SER MDM Login request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Login Data | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  (name/value data type)  id/string  Example：  {  "id":"000c29d0013c"  } |  |
|  |  |  |  |  |

### RDM Logout response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to SER MDM Login response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original SER MDM Login request PDU. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |
|  |  |  |  |  |

### RDM Operate requests syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to SER MDM Operate request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | id | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  (name/value data type)  id/string  Example：  {  "id":"000c29d0013c"  } |  |

### RDM Operate response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to SER MDM Operate response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original SER MDM Operate request PDU. | 3.1.4 |
| B  O  D  Y | RDM Operation | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  (name/value data type)  result/integer (Ref.3.2.3)  control/(JSON Object)  list/integer (array under control)  control：  count/integer (list count)  list (JSON Array)  list：  type/integer(control type)    Example：  {  "result": 0,  "control": {  "count": 2,  "list": [{  "type": 3,  "count": 2,  "list":[    {"app-URL":"http://54.199.198.94/app/android/papago.apk"},  {"app-URL":"http://54.199.198.94/app/android/AliceInWonderland.apk"}  ]  },{  "type": 4,  "count": 1,  "list": [  {  "app-packageName": "app.sensor.tester"  }  ]  }]  }  } | 3.3.1 |

### RDM State requests syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to RDM State request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | id | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  (name/value data type)  count/integer (list count)  list/ (JSON Array)  list：  type/integer(control type)    Example：  {  "id": "000c29d0013c",  "count": 2,  "list": [{  "type": 0,  "??": 0  }, {  "type": 1,  "??": 1,  "??": "xxxx"  }]  } | 3.3.2 |

### RDM State response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to RDM State response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original SER MDM Operate request PDU. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |

### Semantic requests syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to SER MDM Operate request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  (name/value data type)  type/integer value  0：not defined  1：會話  2：指令  words/string value  local/integer value  0：not defined  1：英文  2：中文  Example：  {  "type": 0,  "local": 0,  "words": "Ivy Hello"  } | 3.3.1 |

### Semantic response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Semantic response. | 3.1.2 |
| command status | 4 | Integer | Indicates the status of the original request. | 3.1.3 |
| sequence number | 4 | Integer | Set to the same sequence number of original Semantic request PDU. | 3.1.4 |
| B  O  D  Y | Semantic | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  (name/value data type)  result/integer (Ref.3.2.3)  type/integer value  0：not defined  1：會話  2：指令  Example：  {  "result": 0,  "type": 0,  "local": 0,  "words": "how are you"  } |  |

### AMX Control Command requests syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to AMX Control Command request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  Ext:  {  "function": 1,  "device": 0,  "control": 1  } | 3.3.3 |

### AMX Control Command response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to AMX Control Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y |  |  |  |  |  |

### AMX Status Command requests syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to AMX Status Command request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  {  “function”:1,  “device”:0,  “request-status”:1  } | 3.3.4 |

### AMX Status Command response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to AMX Status Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |

### AMX Broadcast Status Command Request syntax (Controller Send)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to AMX Broadcast Status Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format.  Collection：  {  “function”:1,  “device”:0,  “status”:1  } | 3.3.4 |

### AMX Broadcast Status Command Response syntax (Device Send)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to AMX Broadcast Status Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |

### Firebase Cloud Messaging ID Register Command Request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Firebase Cloud Messaging ID Register Command request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. |  |

### Firebase Cloud Messaging ID Register Command Response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Firebase Cloud Messaging ID Register Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |

### Smart Building QR-Code Token Command Request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Smart Building QR-Code Token Command request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.6 |

### Smart Building QR-Code Token Command Response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Smart Building QR-Code Token Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.8 |

### Smart Building APP Version Command Request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Smart Building APP Version Command request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |

### Smart Building APP Version Command Response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Smart Building APP Version Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.8 |

### Smart Building Get Meeting Data Command Request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Smart Building Get Meeting Data Command request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.9 |

### Smart Building Get Meeting Data Command Response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Smart Building Get Meeting Data Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.10 |

### Smart Building AMX Control Access Command Request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Smart Building AMX Control Access Command request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.11 |

### Smart Building AMX Control Access Command Response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Smart Building AMX Control Access Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.12 |

### Smart Building Wireless Power Charge Command Request syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Smart Building Wireless Power Charge Command request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.13 |

### Smart Building Wireless Power Charge Command Response syntax

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Smart Building Wireless Power Charge Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.14 |

### Facebook Token Command Request

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Facebook Token Command request. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.15 |

### Facebook Token Command Response

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Facebook Token Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.16 |

### Long Data Command Request

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Facebook Token Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |
| B  O  D  Y | Text | Var. | C-Octet  String | Mandatory Parameter.  JSON Data Format. | 3.3.16 |

### Long Data Command Response

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| H  E  A  D  E  R | Field Name | Size  octets | Type | Description | Ref. |
| command length | 4 | Integer | Set to the overall length of PDU. | 3.1.1 |
| command id | 4 | Integer | The value corresponding to Facebook Token Command response. | 3.1.2 |
| command status | 4 | Integer | Set to STATUS\_ROK. | 3.1.3 |
| sequence number | 4 | Integer | Set to a unique sequence number. The associated configuration response PDU should echo the same sequence number. | 3.1.4 |

# CMP Parameter Definition

This section describes the parameters which can be specified in a CMP command.

## Command Header Parameters

### Command length

The command length parameter indicates the length in octets of the CMP message. The CMP message header (including the command length field itself), the mandatory parameters and the optional parameters are all considered.

### Command id

The command id field identifies the type of message the CMP PDU represents, for example, bind request, bind response etc.

#### CMP Command set

The complete set of Packet Command IDs and their associated values are defined in the following table.

|  |  |
| --- | --- |
| Command ID | Value |
| Generic nack | 0x80000000 |
| Bind request | 0x00000001 |
| Bind response | 0x80000001 |
| Authentication request | 0x00000002 |
| Authentication response | 0x80000002 |
| Access log request | 0x00000003 |
| Access log response | 0x80000003 |
| Initial request | 0x00000004 |
| Initial response | 0x80000004 |
| Sign up request | 0x00000005 |
| Sign up response | 0x80000005 |
| Enquire link request | 0x00000015 |
| Enquire link response | 0x80000015 |
| Unbind request | 0x00000006 |
| Unbind response | 0x80000006 |
| Update request | 0x00000007 |
| Update response | 0x80000007 |
| Long Data request | 0x00000008 |
| Long Data response | 0x80000008 |
| Reboot request | 0x00000010 |
| Reboot response | 0x80000010 |
| Configuration request | 0x00000011 |
| Configuration response | 0x80000011 |
| Power port setting request | 0x00000012 |
| Power port setting response | 0x80000012 |
| Power port state request | 0x00000013 |
| Power port state response | 0x80000013 |
| SER API Sign in request | 0x00000014 |
| SER API Sign in response | 0x80000014 |
| RDM Login request | 0x00000016 |
| RDM Login response | 0x80000016 |
| RDM Operate request | 0x00000017 |
| RDM Operate response | 0x80000017 |
| RDM Logout request | 0x00000018 |
| RDM Logout response | 0x80000018 |
| RDM State request | 0x00000019 |
| RDM State response | 0x80000019 |
| Semantic request | 0x00000030 |
| Semantic response | 0x80000030 |
| AMX Control Command request | 0x00000040 |
| AMX Control Command response | 0x80000040 |
| AMX Status Command request | 0x00000041 |
| AMX Status Command response | 0x80000041 |
| AMX Broadcast Status Command request | 0x00000042 |
| AMX Broadcast Status Command response | 0x80000042 |
| Firebase Cloud Messaging ID Register Command request | 0x00000044 |
| Firebase Cloud Messaging ID Register Command response | 0x80000044 |
| Facebook Token Command request | 0x00000045 |
| Facebook Token Command response | 0x80000045 |
| Smart Building QR-Code Token Command request | 0x00000050 |
| Smart Building QR-Code Token Command response | 0x80000050 |
| Smart Building APP Version Command request | 0x00000051 |
| Smart Building APP Version Command response | 0x80000051 |
| Smart Building Get Meeting Data Command request | 0x00000052 |
| Smart Building Get Meeting Data Command response | 0x80000052 |
| Smart Building AMX Control Access Command request | 0x00000053 |
| Smart Building AMX Control Access Command response | 0x80000053 |
| Smart Building Wireless Power Charge Command request | 0x00000055 |
| Smart Building Wireless Power Charge Command response | 0x80000055 |
| Smart Building Door Control request | 0x00000056 |
| Smart Building Door Control response | 0x80000056 |

### Command status

The command status field of a CMP message response indicates the success or failure of a CMP request.

It is relevant only in the CMP response message and should be set to NULL in CMP request messages.

The complete set of CMP Error Codes and their associated values are defined in the following table.

|  |  |  |
| --- | --- | --- |
| Error Code | Value | Description |
| STATUS\_ROK | 0x00000000 | No Error |
| STATUS\_RINVMSGLEN | 0x00000001 | Message Length is invalid |
| STATUS\_RINVCMDLEN | 0x00000002 | Command Length is invalid |
| STATUS\_RINVCMDID | 0x00000003 | Invalid Command ID |
| STATUS\_RINVBNDSTS | 0x00000004 | Incorrect BIND Status for given command |
| STATUS\_RALYBND | 0x00000005 | Already in Bound State |
| Reserved | 0x00000007 | Reserved |
| STATUS\_RSYSERR | 0x00000008 | System Error |
| Reserved | 0x00000009 ~  0x0000000F | Reserved |
| STATUS\_RBINDFAIL | 0x00000010 | Bind Failed |
| STATUS\_RINVBODY | 0x00000040 | Invalid Packet Body Data |
| STATUS\_RINVCTRLID | 0x00000041 | Invalid Controller ID |
| STATUS\_RINVJSON | 0x00000042 | Invalid JSON Data |

### Sequence number

A sequence number allows a response PDU to be correlated with a request PDU.

The associated CMP response PDU must preserve this field.

The allowed sequence number range is from 0x00000001 to 0x7FFFFFFF.

## Mandatory CMP Parameters

### Service Type

|  |  |
| --- | --- |
| **Type** | **Service** |
| 1 | Mobile Device Tracker |
| 2 | Smart Charging Station |
| 3 | MORE SDK Service |
| 4 | Tracker Service |
| 5 | Appliance Tracker |
| 6 | Toy Tracker |
| 7 | IOT Tracker |

### Initial Data

|  |  |
| --- | --- |
| **Type** | **Data Format (JSON)** |
| 1 | {  "server": [{  "id": 0,  "name": "startTrack",  "ip": "54.199.198.94",  "port": 6607  }, {  "id": 1,  "name": "tracker",  "ip": "54.199.198.94",  "port": 6607  }]  } |
| 2 |  |

### Result Table

|  |  |
| --- | --- |
| **Result** | **Description** |
| 0 | Success |
| 1 | Fail，System Exception |
| 2 | Fail，Invalid Parameter |
| 3 | Fail，System Busy |
| 4 | Fail，Unknown Error |
| 5 | Fail，Invalid Authorization |

### Device Type Table

|  |  |
| --- | --- |
| **Result** | **Description** |
| 0 | Android |
| 1 | IOS |
| 2 | 家電 |
| 3 | 玩具 |
| 4 | 物聯網 |

## Optional Parameter

Optional Parameters are fields, which may be optionally included in a CMP packet.

Optional Parameters must always appear at the end of a packet.

### MDM Operation

MDM Operate Command Type

|  |  |
| --- | --- |
| **Type** | **Description** |
| 1 | Camera |
| 2 | Screen |
| 3 | Install |
| 4 | Uninstall |
| 5 | Mobile Content |
| 6 | Mute |
| 7 | Wi-Fi |
| 8 | Record |
| 9 | Restore |

Ext：

\*\*\*相機 鎖定 json格式\*\*\*

|  |  |  |
| --- | --- | --- |
| **值** | **數值** | **說明** |
| value | 0 | 解鎖 |
| value | 1 | 上鎖 |

ex:

{

"type": 1,

"value": 0

}

\*\*\*螢幕 鎖定 json格式\*\*\*

|  |  |  |
| --- | --- | --- |
| **值** | **數值** | **說明** |
| value | 0 | 解鎖，解鎖時會清除密碼鎖 |
| value | 1 | 上鎖 |
| password | string | 密碼 |
| lock-now | 1 | 馬上上鎖 |

ex:

{

"type": 2,

"value": 1,

"password" :"xxxx",

"lock-now":1

}

\*\*\*APP 安裝 json格式\*\*\*

|  |  |  |
| --- | --- | --- |
| **值** | **數值** | **說明** |
| count | int | 安裝APP URL count數 |
| list | arrary | 安裝App URL Array |
| app-URL | string | 安裝App URL |

ex:

{

"type": 3,

"count": 1,

"list":[

{"app-URL":"http://54.199.198.94/app/android/AppSensorTester.apk"}

]

}

\*\*\*APP 解除安裝 json格式\*\*\*

|  |  |  |
| --- | --- | --- |
| **值** | **數值** | **說明** |
| count | int | 解除安裝APP count數 |
| list | arrary | 解除安裝App Array |
| app-URL | string | 解除安裝App packageName |

ex:

{

"type": 4,

"count": 2,

"list":[

{"app-packageName":"com.comic.test1"},

{"app-packageName":"com.ggooc.test2"}

]

}

\*\*\*Content Control json格式\*\*\*

|  |  |  |
| --- | --- | --- |
| **值** | **數值** | **說明** |
| content-URL | string | 行動內容網址 |

ex:

{

"type": 5,

"content-URL":"http://54.199.198.94/ideas/sdk/download/doc/android/MORE\_Tracker\_SDK\_Android.pdf"

}

\*\*\*Mute Control json格式\*\*\*

|  |  |  |
| --- | --- | --- |
| **值** | **數值** | **說明** |
| value | 0 | 解除靜音 |
| value | 1 | 開啟靜音 |

ex:

{

"type": 6,

"value": 0

}

\*\*\*WIFI Control json格式\*\*\*

|  |  |  |
| --- | --- | --- |
| **值** | **數值** | **說明** |
| ssid | string | ssid |
| password | string | 密碼 |
| encryption-type | 1 | 加密機制，NO\_PASSWORD |
| encryption-type | 2 | 加密機制，WEP |
| encryption-type | 3 | 加密機制，WPA /WPA2 PSK |

ex:

{

"type": 7,

"ssid": "New Time Capsule",

"password":"google123!",

"encryption-type":3

}

\*\*\*Record Control json格式\*\*\*

ex:

{

"type": 8

}

\*\*\*Restore Control json格式\*\*\*

ex:

{

"type": 9

}

### MDM State Updater Type

|  |  |
| --- | --- |
| **Type** | **Description** |
| 1 | Power |
| 2 | Storage Space |
| 3 | GPS |
| 4 | App State |

Ext:

\*\*\*\*\*電量 json\*\*\*\*\*\*

{

"type": 1,

"level": "36.0"

}

\*\*\*\*\*儲存空間 json\*\*\*\*\*\*

{

"type": 2,

"availablememory": "45.65"

}

\*\*\*\*\*經緯度 json\*\*\*\*\*\*

{

"type": 3,

"lat": "25.0585396",

"lng": "121.5546918"

}

\*\*\*\*\*使用者App追蹤 json\*\*\*\*\*\*

{

"type": 4,

"addlistcount": 2,

"addlist": [

{

"packagename": "org.iii.aliceinwonderland",

"appname": "艾莉絲夢遊仙境"

},

{

"packagename": "com.soohoobook.papago",

"appname": "PAPAGO"

}

],

"removelistcount": 1,

"removelist": [

{

"packagename": "app.sensor.tester",

"appname": "APPSensor Tester"

}

]

}

### AMX Control Command Type

Ext:

{

"function": 1,

"device": 0,

"control": 1

}

|  |  |
| --- | --- |
| function | |
| 名稱 | 數值 |
| 系統電源 | 1 |
| 模式切換 | 2 |
| 影像切換 | 3 |
| 投影機 | 4 |
| 音量 | 5 |
| 窗簾 | 6 |
| 燈光 | 7 |
| 藍光DVD | 8 |

|  |  |  |
| --- | --- | --- |
| function | device | |
| 名稱 | 名稱 | 數值 |
| 模式切換 | 演講模式 | 1 |
| 模式切換 | 簡報模式 | 2 |
| 模式切換 | 劇院模式 | 3 |
|  |  |  |
| 投影機 | 左 | 1 |
| 投影機 | 中 | 2 |
| 投影機 | 右 | 3 |
|  |  |  |
| 音量 | 無線Mic(紅) | 1 |
| 音量 | 無線Mic(黃) | 2 |
| 音量 | 無線Mic(藍) | 3 |
| 音量 | 無線Mic(綠) | 4 |
| 音量 | 面板Mic1 | 5 |
| 音量 | 面板Mic2 | 6 |
| 音量 | 影音音源 | 7 |
| 音量 | 中控室 | 8 |
| 音量 | 視訊輸入 | 9 |
| 音量 | 主喇叭 | 10 |
| 音量 | 吸頂喇叭 | 11 |
| 音量 | 導播台 | 12 |
| 音量 | 視訊輸出 | 13 |
|  |  |  |
| 燈光 | 白板燈(右) | 1 |
| 燈光 | 後方筒燈 | 2 |
| 燈光 | 白板燈(左) | 3 |
| 燈光 | 講台間照 | 4 |
| 燈光 | 後方間照 | 5 |
| 燈光 | 講台筒燈 | 6 |
| 燈光 | 白板燈(中) | 7 |
| **燈光** | **簡報燈光** | **8** |
| 燈光 | 全部燈光 | 99 |

|  |  |
| --- | --- |
| control | |
| 名稱 | 數值 |
| ON | 1 |
| OFF | 2 |
| Mute | 3 |
| Unmute | 4 |
| Up(可能代表聲音、銀幕、窗簾等) | 5 |
| Down(可能代表聲音、銀幕、窗簾等) | 6 |
| Project\_HDMI | 7 |
| Project\_VGA | 8 |
|  |  |
| Matrix\_input\_1 | 9 |
| Matrix\_input\_2 | 10 |
| Matrix\_input\_3 | 11 |
| Matrix\_input\_4 | 12 |
| Matrix\_input\_5 | 13 |
| Matrix\_input\_6 | 14 |
| Matrix\_input\_7 | 15 |
| Matrix\_input\_8 | 16 |
| **BD\_POWER** | **17** |
| BD\_OPEN | 18 |
| BD\_PLAY | 19 |
| BD\_STOP | 20 |
| BD\_PAUSE | 21 |
| BD\_NEXT | 22 |
| BD\_PREVIEW | 23 |
| BD\_FORWARD | 24 |
| BD\_REVIEW | 25 |
| BD\_UP | 26 |
| BD\_DOWN | 27 |
| BD\_LEFT | 28 |
| BD\_RIGHT | 29 |
| BD\_OK | 30 |
| BD\_BACK | 31 |
| BD\_MENU | 32 |
| BD\_TOPMENU | 33 |
| BD\_HOME | 34 |
| BD\_SUBTITLE | 35 |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

|  |  |  |
| --- | --- | --- |
| 中文名稱 | Control Command | Json 格式 |
| 開啟系統電源 | CTL\_SYSTEM\_ON | {  "function": 1,  "device": 0,  "control": 1  } |
| 關閉系統電源 | CTL\_SYSTEM\_OFF | {  "function": 1,  "device": 0,  "control": 2  } |
| 演講模式 | CTL\_MODE\_SPEECH | {  "function": 2,  "device": 1,  "control": 0  } |
| 簡報模式 | CTL\_MODE\_BRIEF | {  "function": 2,  "device": 2,  "control": 0  } |
| 劇院模式 | CTL\_MODE\_CINEMA | {  "function": 2,  "device": 3,  "control": 0  } |
| 影像切換:中控VGA | CTL\_MATRIX\_INPUT1 | {  "function": 3,  "device": 0,  "control": 9  } |
| 影像切換:視訊VGA | CTL\_MATRIX\_INPUT2 | {  "function": 3,  "device": 0,  "control": 10  } |
| 影像切換:中控室HDMI1 | CTL\_MATRIX\_INPUT3 | {  "function": 3,  "device": 0,  "control": 11  } |
| 影像切換:中控室HDMI2 | CTL\_MATRIX\_INPUT4 | {  "function": 3,  "device": 0,  "control": 12  } |
| 影像切換:DVD | CTL\_MATRIX\_INPUT5 | {  "function": 3,  "device": 0,  "control": 13  } |
| 影像切換:input6 | CTL\_MATRIX\_INPUT6 | {  "function": 3,  "device": 0,  "control": 14  } |
| 影像切換:講台牆壁外接插座 | CTL\_MATRIX\_INPUT7 | {  "function": 3,  "device": 0,  "control": 15  } |
| 影像切換:input8 | CTL\_MATRIX\_INPUT8 | {  "function": 3,  "device": 0,  "control": 16  } |
|  |  |  |
| 左投影機開啟 | CTL\_PROJ\_ON\_LEFT | {  "function": 4,  "device": 1,  "control": 1  } |
| 左投影機關閉 | CTL\_PROJ\_OFF\_LEFT | {  "function": 4,  "device": 1,  "control": 2  } |
| 左投影機HDMI | CTL\_PROJ\_HDMI\_LEFT | {  "function": 4,  "device": 1,  "control": 7  } |
| 左投影機VGA | CTL\_PROJ\_VGA\_LEFT | {  "function": 4,  "device": 1,  "control": 8  } |
| 左投影機黑畫面 | CTL\_PROJ\_MUTE\_LEFT | {  "function": 4,  "device": 1,  "control": 3  } |
| 左投影機黑畫面取消 | CTL\_PROJ\_UNMUTE\_LEFT | {  "function": 4,  "device": 1,  "control": 4  } |
| 左電動銀幕上升 | CTL\_SCREEN\_UP\_LEFT | {  "function": 4,  "device": 1,  "control": 5  } |
| 左電動銀幕下降 | CTL\_SCREEN\_DOWN\_LEFT | {  "function": 4,  "device": 1,  "control": 6  } |
|  |  |  |
| 中投影機開啟 | CTL\_PROJ\_ON\_CENTER | {  "function": 4,  "device": 2,  "control": 1  } |
| 中投影機關閉 | CTL\_PROJ\_OFF\_CENTER | {  "function": 4,  "device": 2,  "control": 2  } |
| 中投影機HDMI | CTL\_PROJ\_HDMI\_CENTER | {  "function": 4,  "device": 2,  "control": 7  } |
| 中投影機VGA | CTL\_PROJ\_VGA\_CENTER | {  "function": 4,  "device": 2,  "control": 8  } |
| 中投影機黑畫面 | CTL\_PROJ\_MUTE\_CENTER | {  "function": 4,  "device": 2,  "control": 3  } |
| 中投影機黑畫面取消 | CTL\_PROJ\_UNMUTE\_CENTER | {  "function": 4,  "device": 2,  "control": 4  } |
| 中電動銀幕上升 | CTL\_SCREEN\_UP\_CENTER | {  "function": 4,  "device": 2,  "control": 5  } |
| 中電動銀幕下降 | CTL\_SCREEN\_DOWN\_CENTER | {  "function": 4,  "device": 2,  "control": 6  } |
|  |  |  |
| 右投影機開啟 | CTL\_PROJ\_ON\_RIGHT | {  "function": 4,  "device": 3,  "control": 1  } |
| 右投影機關閉 | CTL\_PROJ\_OFF\_RIGHT | {  "function": 4,  "device": 3,  "control": 2  } |
| 右投影機HDMI | CTL\_PROJ\_HDMI\_RIGHT | {  "function": 4,  "device": 3,  "control": 7  } |
| 右投影機VGA | CTL\_PROJ\_VGA\_RIGHT | {  "function": 4,  "device": 3,  "control": 8  } |
| 右投影機黑畫面 | CTL\_PROJ\_MUTE\_RIGHT | {  "function": 4,  "device": 3,  "control": 3  } |
| 右投影機黑畫面取消 | CTL\_PROJ\_UNMUTE\_RIGHT | {  "function": 4,  "device": 3,  "control": 4  } |
| 右電動銀幕上升 | CTL\_SCREEN\_UP\_RIGHT | {  "function": 4,  "device": 3,  "control": 5  } |
| 右電動銀幕下降 | CTL\_SCREEN\_DOWN\_RIGHT | {  "function": 4,  "device": 3,  "control": 6  } |
|  |  |  |
| 無線Mic(紅) 音量增加 | CTL\_INPUT1\_VOL\_UP | {  "function": 5,  "device": 1,  "control":5  } |
| 無線Mic(紅) 音量減少 | CTL\_INPUT1\_VOL\_DOWN | {  "function": 5,  "device": 1,  "control":6  } |
| 無線Mic(紅) 靜音 | CTL\_INPUT1\_MUTE | {  "function": 5,  "device": 1,  "control":3  } |
| 無線Mic(紅) 靜音取消 | CTL\_INPUT1\_UNMUTE | {  "function": 5,  "device": 1,  "control":4  } |
|  |  |  |
| 無線Mic(黃) 音量增加 | CTL\_INPUT2\_VOL\_UP | {  "function": 5,  "device": 2,  "control":5  } |
| 無線Mic(黃) 音量減少 | CTL\_INPUT2\_VOL\_DOWN | {  "function": 5,  "device": 2,  "control":6  } |
| 無線Mic(黃) 靜音 | CTL\_INPUT2\_MUTE | {  "function": 5,  "device":2,  "control":3  } |
| 無線Mic(黃) 靜音取消 | CTL\_INPUT2\_UNMUTE | {  "function": 5,  "device": 2,  "control":4  } |
|  |  |  |
| 無線Mic(藍) 音量增加 | CTL\_INPUT3\_VOL\_UP | {  "function": 5,  "device": 3,  "control":5  } |
| 無線Mic(藍) 音量減少 | CTL\_INPUT3\_VOL\_DOWN | {  "function": 5,  "device": 3,  "control":6  } |
| 無線Mic(藍) 靜音 | CTL\_INPUT3\_MUTE | {  "function": 5,  "device": 3,  "control":3  } |
| 無線Mic(藍) 靜音取消 | CTL\_INPUT3\_UNMUTE | {  "function": 5,  "device": 3,  "control":4  } |
|  |  |  |
| 無線Mic(綠) 音量增加 | CTL\_INPUT4\_VOL\_UP | {  "function": 5,  "device": 4,  "control":5  } |
| 無線Mic(綠) 音量減少 | CTL\_INPUT4\_VOL\_DOWN | {  "function": 5,  "device": 4,  "control":6  } |
| 無線Mic(綠) 靜音 | CTL\_INPUT4\_MUTE | {  "function": 5,  "device": 4,  "control":3  } |
| 無線Mic(綠) 靜音取消 | CTL\_INPUT4\_UNMUTE | {  "function": 5,  "device": 4,  "control":4  } |
|  |  |  |
| 面板Mic1 音量增加 | CTL\_INPUT5\_VOL\_UP | {  "function": 5,  "device": 5,  "control":5  } |
| 面板Mic1 音量減少 | CTL\_INPUT5\_VOL\_DOWN | {  "function": 5,  "device": 5,  "control":6  } |
| 面板Mic1 靜音 | CTL\_INPUT5\_MUTE | {  "function": 5,  "device": 5,  "control":3  } |
| 面板Mic1 靜音取消 | CTL\_INPUT5\_UNMUTE | {  "function": 5,  "device": 5,  "control":4  } |
|  |  |  |
| 面板Mic2 音量增加 | CTL\_INPUT6\_VOL\_UP | {  "function": 5,  "device": 6,  "control":5  } |
| 面板Mic2 音量減少 | CTL\_INPUT6\_VOL\_DOWN | {  "function": 5,  "device": 6,  "control":6  } |
| 面板Mic2 靜音 | CTL\_INPUT6\_MUTE | {  "function": 5,  "device": 6,  "control":3  } |
| 面板Mic2 靜音取消 | CTL\_INPUT6\_UNMUTE | {  "function": 5,  "device": 6,  "control":4  } |
|  |  |  |
| 影音音源 音量增加 | CTL\_INPUT7\_VOL\_UP | {  "function": 5,  "device": 7,  "control":5  } |
| 影音音源 音量減少 | CTL\_INPUT7\_VOL\_DOWN | {  "function": 5,  "device": 7,  "control":6  } |
| 影音音源 靜音 | CTL\_INPUT7\_MUTE | {  "function": 5,  "device": 7,  "control":3  } |
| 影音音源 靜音取消 | CTL\_INPUT7\_UNMUTE | {  "function": 5,  "device":7,  "control":4  } |
|  |  |  |
| 中控室 音量增加 | CTL\_INPUT9\_VOL\_UP | {  "function": 5,  "device": 8,  "control":5  } |
| 中控室 音量減少 | CTL\_INPUT9\_VOL\_DOWN | {  "function": 5,  "device": 8,  "control":6  } |
| 中控室 靜音 | CTL\_INPUT9\_MUTE | {  "function": 5,  "device": 8,  "control":3  } |
| 中控室 靜音取消 | CTL\_INPUT9\_UNMUTE | {  "function": 5,  "device": 8,  "control":4  } |
|  |  |  |
| 視訊輸入 音量增加 | CTL\_INPUT10\_VOL\_UP | {  "function": 5,  "device": 9,  "control":5  } |
| 視訊輸入 音量減少 | CTL\_INPUT10\_VOL\_DOWN | {  "function": 5,  "device": 9,  "control":6  } |
| 視訊輸入 靜音 | CTL\_INPUT10\_MUTE | {  "function": 5,  "device": 9,  "control":3  } |
| 視訊輸入 靜音取消 | CTL\_INPUT10\_UNMUTE | {  "function": 5,  "device": 9,  "control":4  } |
|  |  |  |
| 主喇叭 音量增加 | CTL\_OUTPUT1\_VOL\_UP | {  "function": 5,  "device": 10,  "control":5  } |
| 主喇叭 音量減少 | CTL\_OUTPUT1\_VOL\_DOWN | {  "function": 5,  "device": 10,  "control":6  } |
| 主喇叭 靜音 | CTL\_OUTPUT1\_MUTE | {  "function": 5,  "device": 10,  "control":3  } |
| 主喇叭 靜音取消 | CTL\_OUTPUT1\_UNMUTE | {  "function": 5,  "device": 10,  "control":4  } |
|  |  |  |
| 吸頂喇叭 音量增加 | CTL\_OUTPUT2\_VOL\_UP | {  "function": 5,  "device": 11,  "control":5  } |
| 吸頂喇叭 音量減少 | CTL\_OUTPUT2\_VOL\_DOWN | {  "function": 5,  "device": 11,  "control":6  } |
| 吸頂喇叭 靜音 | CTL\_OUTPUT2\_MUTE | {  "function": 5,  "device": 11,  "control":3  } |
| 吸頂喇叭 靜音取消 | CTL\_OUTPUT2\_UNMUTE | {  "function": 5,  "device": 11,  "control":4  } |
|  |  |  |
| 導播台 音量增加 | CTL\_OUTPUT3\_VOL\_UP | {  "function": 5,  "device": 12,  "control":5  } |
| 導播台 音量減少 | CTL\_OUTPUT3\_VOL\_DOWN | {  "function": 5,  "device": 12,  "control":6  } |
| 導播台 靜音 | CTL\_OUTPUT3\_MUTE | {  "function": 5,  "device": 12,  "control":3  } |
| 導播台 靜音取消 | CTL\_OUTPUT3\_UNMUTE | {  "function": 5,  "device": 12,  "control":4  } |
|  |  |  |
| 視訊輸出 音量增加 | CTL\_OUTPUT6\_VOL\_UP | {  "function": 5,  "device": 13,  "control":5  } |
| 視訊輸出 音量減少 | CTL\_OUTPUT6\_VOL\_DOWN | {  "function": 5,  "device": 13,  "control":6  } |
| 視訊輸出 靜音 | CTL\_OUTPUT6\_MUTE | {  "function": 5,  "device": 13,  "control":3  } |
| 視訊輸出 靜音取消 | CTL\_OUTPUT6\_UNMUTE | {  "function": 5,  "device": 13,  "control":4  } |
|  |  |  |
| 窗簾上升 | CTL\_CURTAIN\_UP | {  "function": 6,  "device": 0,  "control":5  } |
| 窗簾下降 | CTL\_CURTAIN\_DOWN | {  "function": 6,  "device": 0,  "control":6  } |
| 白板燈(右) 開 | CTL\_LIGHT1\_ON | {  "function": 7,  "device": 1,  "control":1  } |
| 白板燈(右) 關 | CTL\_LIGHT1\_OFF | {  "function": 7,  "device": 1,  "control":2  } |
| 後方筒燈 開 | CTL\_LIGHT2\_ON | {  "function": 7,  "device": 2,  "control":1  } |
| 後方筒燈 關 | CTL\_LIGHT2\_OFF | {  "function": 7,  "device": 2,  "control":2  } |
| 白板燈(左) 開 | CTL\_LIGHT3\_ON | {  "function": 7,  "device": 3,  "control":1  } |
| 白板燈(左) 關 | CTL\_LIGHT3\_OFF | {  "function": 7,  "device": 3,  "control":2  } |
| 講台間照 開 | CTL\_LIGHT4\_ON | {  "function": 7,  "device": 4,  "control":1  } |
| 講台間照 關 | CTL\_LIGHT4\_OFF | {  "function": 7,  "device": 4,  "control":2  } |
| 後方間照 開 | CTL\_LIGHT5\_ON | {  "function": 7,  "device": 5,  "control":1  } |
| 後方間照 關 | CTL\_LIGHT5\_OFF | {  "function": 7,  "device": 5,  "control":2  } |
| 講台筒燈 開 | CTL\_LIGHT6\_ON | {  "function": 7,  "device": 6,  "control":1  } |
| 講台筒燈 關 | CTL\_LIGHT6\_OFF | {  "function": 7,  "device": 6,  "control":2  } |
| 白板燈(中) 開 | CTL\_LIGHT7\_ON | {  "function": 7,  "device": 7,  "control":1  } |
| 白板燈(中) 關 | CTL\_LIGHT7\_OFF | {  "function": 7,  "device": 7,  "control":2  } |
| 燈光全開 | CTL\_LIGHT\_ALL\_ON | {  "function": 7,  "device": 99,  "control":1  } |
| 燈光全關 | CTL\_LIGHT\_ALL\_OFF | {  "function": 7,  "device": 99,  "control":2  } |
| **簡報燈光** | **CTL\_LIGHT\_BRIEF** | **{**  **"function": 7,**  **"device": 8,**  **"control":0**  **}** |
|  |  |  |
| **藍光DVD 電源開關** | **CTL\_BD\_POWER** | **{**  **"function": 8,**  **"device": 0,**  **"control":17**  **}** |
| 藍光DVD 退片按鈕 | CTL\_BD\_OPEN | {  "function": 8,  "device": 0,  "control":18  } |
| 藍光DVD 開始播放 | CTL\_BD\_PLAY | {  "function": 8,  "device": 0,  "control":19  } |
| 藍光DVD 停止播放 | CTL\_BD\_STOP | {  "function": 8,  "device": 0,  "control":20  } |
| 藍光DVD 暫停播放 | CTL\_BD\_PAUSE | {  "function": 8,  "device": 0,  "control":21  } |
| 藍光DVD >>| | CTL\_BD\_NEXT | {  "function": 8,  "device": 0,  "control":22  } |
| 藍光DVD |<< | CTL\_BD\_PREVIEW | {  "function": 8,  "device": 0,  "control":23  } |
| 藍光DVD >> | CTL\_BD\_FORWARD | {  "function": 8,  "device": 0,  "control":24  } |
| 藍光DVD << | CTL\_BD\_REVIEW | {  "function": 8,  "device": 0,  "control":25  } |
| 藍光DVD 上 | CTL\_BD\_UP | {  "function": 8,  "device": 0,  "control":26  } |
| 藍光DVD 下 | CTL\_BD\_DOWN | {  "function": 8,  "device": 0,  "control":27  } |
| 藍光DVD 左 | CTL\_BD\_LEFT | {  "function": 8,  "device": 0,  "control":28  } |
| 藍光DVD 右 | CTL\_BD\_RIGHT | {  "function": 8,  "device": 0,  "control":29  } |
| 藍光DVD OK | CTL\_BD\_OK | {  "function": 8,  "device": 0,  "control":30  } |
| 藍光DVD 返回 | CTL\_BD\_BACK | {  "function": 8,  "device": 0,  "control":31  } |
| 藍光DVD 選單 | CTL\_BD\_MENU | {  "function": 8,  "device": 0,  "control":32  } |
| 藍光DVD 主選單 | CTL\_BD\_TOPMENU | {  "function": 8,  "device": 0,  "control":33  } |
| 藍光DVD 首頁 | CTL\_BD\_HOME | {  "function": 8,  "device": 0,  "control":34  } |
| 藍光DVD 字幕 | CTL\_BD\_SUBTITLE | {  "function": 8,  "device": 0,  "control":35  } |

### AMX Status Command Type

Request:

{

“function”:1,

“device”:0,

“request-status”:1

}

Response

{

“function”:1,

“device”:0,

“status”:1

}

|  |  |
| --- | --- |
| function | |
| 名稱 | 數值 |
| 系統電源 | 1 |
| 模式切換 | 2 |
| 影像切換 | 3 |
| 投影機 | 4 |
| 音量 | 5 |
| 窗簾 | 6 |
| 燈光 | 7 |
| 藍光DVD | 8 |

|  |  |  |
| --- | --- | --- |
| **function** | **device** | |
| **名稱** | **名稱** | **數值** |
|  |  |  |
| 投影機 | 左 | 1 |
| 投影機 | 中 | 2 |
| 投影機 | 右 | 3 |
|  |  |  |
| 音量 | 無線Mic(紅) | 1 |
| 音量 | 無線Mic(黃) | 2 |
| 音量 | 無線Mic(藍) | 3 |
| 音量 | 無線Mic(綠) | 4 |
| 音量 | 面板Mic1 | 5 |
| 音量 | 面板Mic2 | 6 |
| 音量 | 影音音源 | 7 |
| 音量 | 中控室 | 8 |
| 音量 | 視訊輸入 | 9 |
| 音量 | 主喇叭 | 10 |
| 音量 | 吸頂喇叭 | 11 |
| 音量 | 導播台 | 12 |
| 音量 | 視訊輸出 | 13 |
|  |  |  |
| 燈光 | 白板燈(右) | 1 |
| 燈光 | 後方筒燈 | 2 |
| 燈光 | 白板燈(左) | 3 |
| 燈光 | 講台間照 | 4 |
| 燈光 | 後方間照 | 5 |
| 燈光 | 講台筒燈 | 6 |
| 燈光 | 白板燈(中) | 7 |

|  |  |
| --- | --- |
| request-status | |
| 名稱 | 數值 |
| Power | 1 |
| Signal | 2 |
| Mute | 3 |
| Matrix | 4 |
| Level | 5 |
|  |  |

|  |  |
| --- | --- |
| status | |
| 名稱 | 數值 |
| ON | 1 |
| OFF | 2 |
| Mute | 3 |
| Unmute | 4 |
|  |  |
|  |  |
| Project\_HDMI | 7 |
| Project\_VGA | 8 |
|  |  |
| Matrix\_input\_1 | 9 |
| Matrix\_input\_2 | 10 |
| Matrix\_input\_3 | 11 |
| Matrix\_input\_4 | 12 |
| Matrix\_input\_5 | 13 |
| Matrix\_input\_6 | 14 |
| Matrix\_input\_7 | 15 |
| Matrix\_input\_8 | 16 |
|  |  |
|  |  |

|  |  |
| --- | --- |
| level | |
| 名稱 | 數值 |
|  | -40~12 |

Request

|  |  |
| --- | --- |
| Request Status Command | Json 格式 |
| STATUS\_SYSTEM | {  "function": 1,  "device": 0,  " request-status ": 1  } |
| STATUS\_MATRIX | {  "function": 3,  "device": 0,  " request-status ": 4  } |
|  |  |
| STATUS\_PROJ\_POWER\_LEFT | {  "function": 4,  "device": 1,  " request-status ": 1  } |
| STATUS\_PROJ\_SIGNAL\_LEFT | {  "function": 4,  "device": 1,  " request-status ": 2  } |
| STATUS\_PROJ\_MUTE\_LEFT | {  "function": 4,  "device": 1,  " request-status ": 3  } |
|  |  |
| STATUS\_PROJ\_POWER\_CENTER | {  "function": 4,  "device": 2,  " request-status ": 1  } |
| STATUS\_PROJ\_SIGNAL\_CENTER | {  "function": 4,  "device": 2,  " request-status ": 2  } |
| STATUS\_PROJ\_MUTE\_CENTER | {  "function": 4,  "device": 2,  " request-status ": 3  } |
|  |  |
| STATUS\_PROJ\_POWER\_RIGHT | {  "function": 4,  "device": 3,  " request-status ": 1  } |
| STATUS\_PROJ\_SIGNAL\_RIGHT | {  "function": 4,  "device": 3,  " request-status ": 2  } |
| STATUS\_PROJ\_MUTE\_RIGHT | {  "function": 4,  "device": 3,  " request-status ": 3  } |
|  |  |
| STATUS\_INPUT1\_MUTE | {  "function": 5,  "device":1,  " request-status ": 3  } |
| STATUS\_INPUT2\_MUTE | {  "function": 5,  "device":2,  " request-status ": 3  } |
| STATUS\_INPUT3\_MUTE | {  "function": 5,  "device":3,  " request-status ": 3  } |
| STATUS\_INPUT4\_MUTE | {  "function": 5,  "device":4,  " request-status ": 3  } |
| STATUS\_INPUT5\_MUTE | {  "function": 5,  "device":5,  " request-status ": 3  } |
| STATUS\_INPUT6\_MUTE | {  "function": 5,  "device":6,  " request-status ": 3  } |
| STATUS\_INPUT7\_MUTE | {  "function": 5,  "device":7,  " request-status ": 3  } |
| STATUS\_INPUT9\_MUTE | {  "function": 5,  "device":8,  " request-status ": 3  } |
| STATUS\_INPUT10\_MUTE | {  "function": 5,  "device":9,  " request-status ": 3  } |
| STATUS\_OUTPUT1\_MUTE | {  "function": 5,  "device":10,  " request-status ": 3  } |
| STATUS\_OUTPUT2\_MUTE | {  "function": 5,  "device":11,  " request-status ": 3  } |
| STATUS\_OUTPUT3\_MUTE | {  "function": 5,  "device":12,  " request-status ": 3  } |
| STATUS\_OUTPUT6\_MUTE | {  "function": 5,  "device":13,  " request-status ": 3  } |
|  |  |
| STATUS\_INPUT1\_VOL | {  "function": 5,  "device":1,  " request-status ": 5  } |
| STATUS\_INPUT2\_VOL | {  "function": 5,  "device":2,  " request-status ": 5  } |
| STATUS\_INPUT3\_VOL | {  "function": 5,  "device":3,  " request-status ": 5  } |
| STATUS\_INPUT4\_VOL | {  "function": 5,  "device":4,  " request-status ": 5  } |
| STATUS\_INPUT5\_VOL | {  "function": 5,  "device":5,  " request-status ": 5  } |
| STATUS\_INPUT6\_VOL | {  "function": 5,  "device":6,  " request-status ": 5  } |
| STATUS\_INPUT7\_VOL | {  "function": 5,  "device":7,  " request-status ": 5  } |
| STATUS\_INPUT9\_VOL | {  "function": 5,  "device":8,  " request-status ": 5  } |
| STATUS\_INPUT10\_VOL | {  "function": 5,  "device":9,  " request-status ": 5  } |
| STATUS\_OUTPUT1\_VOL | {  "function": 5,  "device":10,  " request-status ": 5  } |
| STATUS\_OUTPUT2\_VOL | {  "function": 5,  "device":11,  " request-status ": 5  } |
| STATUS\_OUTPUT3\_VOL | {  "function": 5,  "device":12,  " request-status ": 5  } |
| STATUS\_OUTPUT6\_VOL | {  "function": 5,  "device":13,  " request-status ": 5  } |
|  |  |
| STATUS\_LIGHT1 | {  "function": 7,  "device": 1,  " request-status ": 1  } |
| STATUS\_LIGHT2 | {  "function": 7,  "device": 2,  " request-status ": 1  } |
| STATUS\_LIGHT3 | {  "function": 7,  "device": 3,  " request-status ": 1  } |
| STATUS\_LIGHT4 | {  "function": 7,  "device": 4,  " request-status ": 1  } |
| STATUS\_LIGHT5 | {  "function": 7,  "device": 5,  " request-status ": 1  } |
| STATUS\_LIGHT6 | {  "function": 7,  "device": 6,  " request-status ": 1  } |
| STATUS\_LIGHT7 | {  "function": 7,  "device": 7,  " request-status ": 1  } |
|  |  |
| STATUS\_BD\_POWER | {  "function": 8,  "device": 0,  " request-status ": 1  } |

Response

|  |  |
| --- | --- |
| Response Status Command | Json 格式 |
| STATUS\_SYSTEM\_ON | {  “function”:1,  “device”:0,  “status”:1  } |
| STATUS\_SYSTEM\_OFF | {  “function”:1,  “device”:0,  “status”:2  } |
|  |  |
| STATUS\_MATRIX\_INPUT1 | {  “function”:3,  “device”:0,  “status”:9  } |
| STATUS\_MATRIX\_INPUT2 | {  “function”:3,  “device”:0,  “status”:10  } |
| STATUS\_MATRIX\_INPUT3 | {  “function”:3,  “device”:0,  “status”:11  } |
| STATUS\_MATRIX\_INPUT4 | {  “function”:3,  “device”:0,  “status”:12  } |
| STATUS\_MATRIX\_INPUT5 | {  “function”:3,  “device”:0,  “status”:13  } |
| STATUS\_MATRIX\_INPUT6 | {  “function”:3,  “device”:0,  “status”:14  } |
| STATUS\_MATRIX\_INPUT7 | {  “function”:3,  “device”:0,  “status”:15  } |
| STATUS\_MATRIX\_INPUT8 | {  “function”:3,  “device”:0,  “status”:16  } |
|  |  |
| STATUS\_PROJ\_ON\_LEFT | {  “function”:4,  “device”:1,  “status”:1  } |
| STATUS\_PROJ\_OFF\_LEFT | {  “function”:4,  “device”:1,  “status”:2  } |
| STATUS\_PROJ\_HDMI\_LEFT | {  “function”:4,  “device”:1,  “status”:7  } |
| STATUS\_PROJ\_VGA\_LEFT | {  “function”:4,  “device”:1,  “status”:8  } |
| STATUS\_PROJ\_MUTE\_LEFT | {  “function”:4,  “device”:1,  “status”:3  } |
| STATUS\_PROJ\_UNMUTE\_LEFT | {  “function”:4,  “device”:1,  “status”:4  } |
|  |  |
| STATUS\_PROJ\_ON\_CENTER | {  “function”:4,  “device”:2,  “status”:1  } |
| STATUS\_PROJ\_OFF\_CENTER | {  “function”:4,  “device”:2,  “status”:2  } |
| STATUS\_PROJ\_HDMI\_CENTER | {  “function”:4,  “device”:2,  “status”:7  } |
| STATUS\_PROJ\_VGA\_CENTER | {  “function”:4,  “device”:2,  “status”:8  } |
| STATUS\_PROJ\_MUTE\_CENTER | {  “function”:4,  “device”:2,  “status”:3  } |
| STATUS\_PROJ\_UNMUTE\_CENTER | {  “function”:4,  “device”:2,  “status”:4  } |
|  |  |
| STATUS\_PROJ\_ON\_RIGHT | {  “function”:4,  “device”:3,  “status”:1  } |
| STATUS\_PROJ\_OFF\_RIGHT | {  “function”:4,  “device”:3,  “status”:2  } |
| STATUS\_PROJ\_HDMI\_RIGHT | {  “function”:4,  “device”:3,  “status”:7  } |
| STATUS\_PROJ\_VGA\_RIGHT | {  “function”:4,  “device”:3,  “status”:8  } |
| STATUS\_PROJ\_MUTE\_RIGHT | {  “function”:4,  “device”:3,  “status”:3  } |
| STATUS\_PROJ\_UNMUTE\_RIGHT | {  “function”:4,  “device”:3,  “status”:4  } |
|  |  |
| STATUS\_INPUT1\_MUTE | {  “function”:5,  “device”:1,  “status”:3  } |
| STATUS\_INPUT1\_UNMUTE | {  “function”:5,  “device”:1,  “status”:4  } |
| STATUS\_INPUT2\_MUTE | {  “function”:5,  “device”:2,  “status”:3  } |
| STATUS\_INPUT2\_UNMUTE | {  “function”:5,  “device”:2,  “status”:4  } |
| STATUS\_INPUT3\_MUTE | {  “function”:5,  “device”:3,  “status”:3  } |
| STATUS\_INPUT3\_UNMUTE | {  “function”:5,  “device”:3,  “status”:4  } |
| STATUS\_INPUT4\_MUTE | {  “function”:5,  “device”:4,  “status”:3  } |
| STATUS\_INPUT4\_UNMUTE | {  “function”:5,  “device”:4,  “status”:4  } |
| STATUS\_INPUT5\_MUTE | {  “function”:5,  “device”:5,  “status”:3  } |
| STATUS\_INPUT5\_UNMUTE | {  “function”:5,  “device”:5,  “status”:4  } |
| STATUS\_INPUT6\_MUTE | {  “function”:5,  “device”:6,  “status”:3  } |
| STATUS\_INPUT6\_UNMUTE | {  “function”:5,  “device”:6,  “status”:4  } |
| STATUS\_INPUT7\_MUTE | {  “function”:5,  “device”:7,  “status”:3  } |
| STATUS\_INPUT7\_UNMUTE | {  “function”:5,  “device”:7,  “status”:4  } |
| STATUS\_INPUT9\_MUTE | {  “function”:5,  “device”:8,  “status”:3  } |
| STATUS\_INPUT9\_UNMUTE | {  “function”:5,  “device”:8,  “status”:4  } |
| STATUS\_INPUT10\_MUTE | {  “function”:5,  “device”:9,  “status”:3  } |
| STATUS\_INPUT10\_UNMUTE | {  “function”:5,  “device”:9,  “status”:4  } |
| STATUS\_OUTPUT1\_MUTE | {  “function”:5,  “device”:10,  “status”:3  } |
| STATUS\_OUTPUT1\_UNMUTE | {  “function”:5,  “device”:10,  “status”:4  } |
| STATUS\_OUTPUT2\_MUTE | {  “function”:5,  “device”:11,  “status”:3  } |
| STATUS\_OUTPUT2\_UNMUTE | {  “function”:5,  “device”:11,  “status”:4  } |
| STATUS\_OUTPUT3\_MUTE | {  “function”:5,  “device”:12,  “status”:3  } |
| STATUS\_OUTPUT3\_UNMUTE | {  “function”:5,  “device”:12,  “status”:4  } |
| STATUS\_OUTPUT6\_MUTE | {  “function”:5,  “device”:13,  “status”:3  } |
| STATUS\_OUTPUT6\_UNMUTE | {  “function”:5,  “device”:13,  “status”:4  } |
|  |  |
| STATUS\_LIGHT1\_ON | {  “function”:7,  “device”:1,  “status”:1  } |
| STATUS\_LIGHT1\_OFF | {  “function”:7,  “device”:1,  “status”:2  } |
| STATUS\_LIGHT2\_ON | {  “function”:7,  “device”:2,  “status”:1  } |
| STATUS\_LIGHT2\_OFF | {  “function”:7,  “device”:2,  “status”:2  } |
| STATUS\_LIGHT3\_ON | {  “function”:7,  “device”:3,  “status”:1  } |
| STATUS\_LIGHT3\_OFF | {  “function”:7,  “device”:3,  “status”:2  } |
| STATUS\_LIGHT4\_ON | {  “function”:7,  “device”:4,  “status”:1  } |
| STATUS\_LIGHT4\_OFF | {  “function”:7,  “device”:4,  “status”:2  } |
| STATUS\_LIGHT5\_ON | {  “function”:7,  “device”:5,  “status”:1  } |
| STATUS\_LIGHT5\_OFF | {  “function”:7,  “device”:5,  “status”:2  } |
| STATUS\_LIGHT6\_ON | {  “function”:7,  “device”:6,  “status”:1  } |
| STATUS\_LIGHT6\_OFF | {  “function”:7,  “device”:6,  “status”:2  } |
| STATUS\_LIGHT7\_ON | {  “function”:7,  “device”:7,  “status”:1  } |
| STATUS\_LIGHT7\_OFF | {  “function”:7,  “device”:7,  “status”:2  } |
|  |  |
| STATUS\_BD\_POWER\_ON | {  “function”:8,  “device”:0,  “status”:1  } |
| STATUS\_BD\_POWER\_OFF | {  “function”:8,  “device”:0,  “status”:2  } |
|  |  |
| STATUS\_INPUT1\_VOL | {  “function”:5,  “device”:1,  “level”:?  } |
| STATUS\_INPUT2\_VOL | {  “function”:5,  “device”:2,  “level”:?  } |
| STATUS\_INPUT3\_VOL | {  “function”:5,  “device”:3,  “level”:?  } |
| STATUS\_INPUT4\_VOL | {  “function”:5,  “device”:4,  “level”:?  } |
| STATUS\_INPUT5\_VOL | {  “function”:5,  “device”:5,  “level”:?  } |
| STATUS\_INPUT6\_VOL | {  “function”:5,  “device”:6,  “level”:?  } |
| STATUS\_INPUT7\_VOL | {  “function”:5,  “device”:7,  “level”:?  } |
| STATUS\_INPUT9\_VOL | {  “function”:5,  “device”:8,  “level”:?  } |
| STATUS\_INPUT10\_VOL | {  “function”:5,  “device”:9,  “level”:?  } |
| STATUS\_OUTPUT1\_VOL | {  “function”:5,  “device”:10,  “level”:?  } |
| STATUS\_OUTPUT2\_VOL | {  “function”:5,  “device”:11,  “level”:?  } |
| STATUS\_OUTPUT3\_VOL | {  “function”:5,  “device”:12,  “level”:?  } |
| STATUS\_OUTPUT6\_VOL | {  “function”:5,  “device”:13,  “level”:?  } |
|  |  |
|  |  |

### Firebase Cloud Messaging ID Register Request Command JSON Example

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| FCM\_ID | Firebase Cloud Messaging 推播ID | String |
| APP\_ID | MORE APP ID | String |
| USER\_ID | APP User 唯一識別碼 | String |

Ex:

{

"FCM\_ID": "fSk3qfqUxRk:APA91bHPz9WAsR5vxX9hNE-zoaKHwXVs2BJKW4V9guXnGWO1gSFh-EwjhJpZ00Y0DgOvGhVEg8u5iNDXC-ff6E14nuWzyuSq33H8SZPFbgUpIPiEggQYIbCnt1ZlZEjplZnU33akmPW+",

"APP\_ID": "1484537462214",

"USER\_ID": "d56e0b12-db99-11e6-bf26-cec0c932ce01"

}

### Smart Building QR-Code Token Command Request Command JSON Example

|  |  |  |  |
| --- | --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 | 註 |
| QRCODE\_TOKEN | QR-Code掃描到的token | String |  |
| USER\_ID | APP User UUID | String | 當USER\_ID =null時，請傳String Type NULL |

Ex:

{

"QRCODE\_TOKEN": "wWOoQaMc3bk0aKlFlKvCOBNS/QpXXxW9EztCVQHghDfTm7hgSHb9P8xjG3btILjpaDcaRymw9ckvgIoZKiydY3ceeSDzSiwtYT1/5SOqzdBMOwQYpkshP5Rf21OoUxVkAXWchywRXQ8ZYjazpcB42EPWwImDFY0HTyqwlqxrQBVxTNz1VGOWeIKU4HhGq6cvglShzHG0uF9C0KddPg1gL9UD5+CYoedDId90h723/7SvSOwcaxOI9t/HRTnM1GLTYwz7/jxjvkgh3xjwRHlRVGUWU3UoX5H",

"USER\_ID": "d56e0b12-db99-11e6-bf26-cec0c932ce01"

}

Ex:

{

"QRCODE\_TOKEN": "wWOoQaMc3bk0aKlFlKvCOBNS/QpXXxW9EztCVQHghDfTm7hgSHb9P8xjG3btILjpaDcaRymw9ckvgIoZKiydY3ceeSDzSiwtYT1/5SOqzdBMOwQYpkshP5Rf21OoUxVkAXWchywRXQ8ZYjazpcB42EPWwImDFY0HTyqwlqxrQBVxTNz1VGOWeIKU4HhGq6cvglShzHG0uF9C0KddPg1gL9UD5+CYoedDId90h723/7SvSOwcaxOI9t/HRTnM1GLTYwz7/jxjvkgh3xjwRHlRVGUWU3UoX5H",

"USER\_ID": "null"

}

### Smart Building QR-Code Token Command Response Command JSON Example

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| QRCODE\_TYPE | 回傳QR-Code掃描到型態 | String |
| MESSAGE | JSON Data對應QR-Code Type | JSON |

QRCODE\_TYPE = 0時 為 無法辨識QR-CODE資訊

MESSAGE JSON 欄位為

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| RESULT\_MESSAGE | QR-CODE資訊 | String |

Ex:

{

"QRCODE\_TYPE": "0",

"MESSAGE ": {

"RESULT\_MESSAGE": "Unknown this QR-Code Type"

}

}

QRCODE\_TYPE = 1時，為 會議通知

MESSAGE JSON 欄位為

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| USER\_ID | 此User ID | String |
|  |  |  |

Ex:

{

"QRCODE\_TYPE": "1",

"MESSAGE ": {

" USER\_ID ": " d56e0b12-db99-11e6-bf26-cec0c932ce01"

}

}

QRCODE\_TYPE = 2時 為 智慧簽到

MESSAGE JSON 欄位為

|  |  |  |  |
| --- | --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 | 註 |
| RESULT | 是否今日有能力做簽到 | Boolean | 當此人今日無會議場合時，RUSULT會回傳false |
| RESULT\_MESSAGE | 簽到資訊 | String |  |

Ex:

{

"QRCODE\_TYPE": "2",

"MESSAGE ": {

" RESULT ": true,

" RESULT\_MESSAGE ":" XXXXX"

}

}

QRCODE\_TYPE = 3時 為 門禁開鎖

MESSAGE JSON 欄位為

|  |  |  |  |
| --- | --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 | 註 |
| RESULT | 是否有能力開鎖 | Boolean |  |
| RESULT\_MESSAGE | 開鎖資訊 | String |  |

Ex:

{

"QRCODE\_TYPE": "3",

"MESSAGE ": {

" RESULT ": true,

" RESULT\_MESSAGE ":" XXXXX"

}

}

### Smart Building APP Version Command Response Command JSON Example

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| VERSION | APP 版本 | String |
| APP\_DOWNLOAD\_URL | APP下載網址 | String |

Ex:

{

"VERSION": "1.0",

"APP\_DOWNLOAD\_URL": "http://XXX/ideas/sdk/download/libs/android/XXX.apk"

}

### Smart Building Get Meeting Data Command Request JSON Example

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| USER\_ID | APP User UUID | String |

Ex:

{

"USER\_ID": "d56e0b12-db99-11e6-bf26-cec0c932ce01"

}

### Smart Building Get Meeting Data Command Response JSON Example

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| USER\_ID | APP User UUID | String |
| MEETING\_DATA | 會議資訊 | JSON Array |
|  |  |  |
| MEETING\_ID | 會議ID | String |
| SUPJECT | 會議名稱/目的 | String |
| START\_TIME | 會議開始時間 | String |
| END\_TIME | 會議結束時間 | String |
| ROOM\_ID | 會議室名稱 | String |
| OWNER | 會議負責人 | String |
| OWNER\_EMAIL | 會議負責人電郵 | String |
|  |  |  |

Ex:

{

"USER\_ID": "d56e0b12-db99-11e6-bf26-cec0c932ce01",

“USER\_NAME”:”李二二”,

"MEETING\_DATA": [

{

"MEETING\_ID": "a46595d0-fbcd-4d56-8bdc-3d8fa659b6a1",

"SUPJECT": "XXX公司會議",

"START\_TIME": "2016-06-30 09:30:00",

"END\_TIME": "2016-06-30 12:30:00",

"ROOM\_ID": "ITES\_101",

"OWNER": "王一二",

"OWNER\_EMAIL": "qwer1234@iii.org.tw"

},

{

"MEETING\_ID": "95999b7e-f56f-46b0-b0c0-00eede1afd78",

"SUPJECT": "促進XXX發展計畫",

"START\_TIME": "2016-07-30 09:30:00",

"END\_TIME": "2016-06-30 12:30:00",

"ROOM\_ID": "ITES\_102",

"OWNER": "王二一",

"OWNER\_EMAIL": "qoiu1234@iii.org.tw"

},

{

"MEETING\_ID": "95999b7e-f56f-46b0-b0c0-00eede1ass78",

"SUPJECT": "促進YYY發展計畫",

"START\_TIME": "2016-08-30 09:30:00",

"END\_TIME": "2016-08-30 12:30:00",

"ROOM\_ID": "ITES\_102",

"OWNER": "王二日",

"OWNER\_EMAIL": "qoiu1234222@iii.org.tw"

}

]

}

### Smart Building AMX Control Access Command Request JSON Example

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| USER\_ID | APP User UUID | String |
| ROOM\_ID | 控制哪間會議室 | String |

Ex:

{

"USER\_ID": "d56e0b12-db99-11e6-bf26-cec0c932ce01",

" ROOM\_ID ":" ITES\_101"

}

### Smart Building AMX Control Access Command Response JSON Example

|  |  |  |  |
| --- | --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 | 註 |
| USER\_ID | APP User UUID | String |  |
| RESULT | 是否能控制AMX 設備 | Boolean |  |
| ROOM\_IP | 控制那間會議室IP | String |  |
| ROOM\_PORT | 控制那間會議室Port | int |  |
| ROOM\_TOKEN | 控制那間會議室Token | String | Token為控制會議室依據，會依時間而過期 |

當Result = false 時，IP為""，Port為-1

Ex:

{

"USER\_ID": "d56e0b12-db99-11e6-bf26-cec0c932ce01",

" RESULT": false

}

### Smart Building Wireless Power Charge Command Request

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| APP\_ID | MORE APP ID | String |
| USER\_ID | APP User UUID | String |
| CHARGE\_PLACE | 充電位置 | String |

Ex:

{

"APP\_ID": "1484537462214",

"USER\_ID": "d56e0b12-db99-11e6-bf26-cec0c932ce01",

"CHARGE\_ PLACE ": "ITES\_FLOOR\_1"

}

### Smart Building Wireless Power Charge Command Response

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| CHARGE\_LOCATION | 充電指定位置 | String |

Ex:

{

"CHARGE\_LOCATION ": "1"

}

### Facebook Token Command Request

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| FACEBOOK\_TOKEN | Facebook Token | String |
| FACEBOOK \_APP\_ID | Facebook APP ID | String |
| FACEBOOK\_USER\_ID | Facebook User ID | String |
| APP\_ID | APP使用的ID | String |
| USER\_ID | APP的USER ID | String |

Ex:

{

"FACEBOOK\_TOKEN":"xxxxxxxxxxxxxxxxxxxxxxxxxxxxx",

"FACEBOOK \_APP\_ID":"xxxxxxxxxx",

"FACEBOOK\_USER\_ID":"131324643413",

"APP\_ID": "1484537462214",

"USER\_ID": "d56e0b12-db99-11e6-bf26-cec0c932ce01"

}

### Long Data Command Request & Response

|  |  |  |
| --- | --- | --- |
| 欄位名稱 | 欄位說明 | 欄位型態 |
| COMMAND\_ID | 命令ID | int |
| DATA | 內容資料，  自訂欄位，可超過2K Byte限制 | JSON |

Ex:

{

" COMMAND\_ID ":2,

" DATA ":

{

"test":"xxxx",

"test2":"xxxx"

}

}

# Notes