[](https://www.google.com.tw/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwiH1d-1jsPMAhVIjpQKHU0SCyQQjRwIBw&url=https://commons.wikimedia.org/wiki/File:Microsoft_logo_(2012).svg&psig=AFQjCNHRnEkT8TC0Xt9Ec4RloISjtEx9Pg&ust=1462543812349703)

Intel IoT Project - Sunny Point

Design Document

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Version 1.1

Document Particulars

|  |  |  |  |
| --- | --- | --- | --- |
| Revision | Author | Date | Notes |
| 1 | Kevin Kao | 2016/08/23 | Document created |
| 1.1 | Kevin Kao | 2016/09/29 | Add Parameter: "AccelerationAxis": "X", |
|  |  |  |  |

Document Circulation

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Email | Role | Company |
| Cathy Yeh | cathyyeh@microsoft.com | Principal Program Manager | Microsoft |
| Walker Lin | a-walin@microsoft.com | Senior Developer | Microsoft |
| Bernard Cheah | bernard.cheah@intel.com |  | Intel |
| Mak Hong Beng | hong.beng.mak@intel.com |  | Intel |

[1.1 Get Device 1](#_Toc461115568)

[1.2 Add Device 2](#_Toc461115569)

[1.3 Remove Device 3](#_Toc461115570)

# OBD Dongle Provisioning and Activation

## Get Device

|  |
| --- |
| GET /device/getDevice/{id} |

**Description**

Returns a device data by giving device ID, or return a http status: 404 (not found) when nothing matches.

**HTTP Headers**

|  |  |  |  |
| --- | --- | --- | --- |
| name | value | required | example |
|  |  |  |  |

**Parameters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| name | type | required | default | example |
|  |  |  |  |  |

**Example Code**

|  |
| --- |
| GET /device/getDevice/MS001 HTTP/1.1  Host: spdongleservice.azurewebsites.net  Cache-Control: no-cache |

**Successful Response**

|  |
| --- |
| HTTP Status : 200 |
| {  "id": "Dev12345",  "key": "orrSLv5ImNajsLWAAxLEAsV1VH8eoeEZRs3IM2ockbM=",  "IoTHostName": "Michaeldriving61112.azure-devices.net",  "IoTHubProtocol": "TransportType.Mqtt",  "AccelerationAxis": "X",  "HardBreakValue": -9,  "HardAccelerationValue": 9,  "HeartBeatInterval": 15,  "SendMessageInterval": 180  } |

\* The value of IoTHubProtocol: *TransportType.Mqtt / TransportType.Amqp / TransportType.Http1*

**Not Found Response**

|  |
| --- |
| HTTP Status : 404 |
|  |

**Fail Response**

|  |
| --- |
| HTTP Status : 500 |
| {  "message": "Internal Server Error"  } |

## Add Device

|  |
| --- |
| POST /device/addDevice/{id} |

**Description**

Add a new OBD Dongle device into IoT Hub.

To add a new OBD Dongle device will get 404 (Not Found) response till the new device be provisioning at backend Admin system.

For adding an existed device, the API will return same data of the device.

**HTTP Headers**

|  |  |  |  |
| --- | --- | --- | --- |
| name | value | required | example |
|  |  |  |  |

**Parameters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| name | type | required | default | example |
| id | string | true |  | Dev12345 |
| lat | string | true |  | 39.6034810 |
| lng | string | true |  | -119.6822510 |

**Example Code**

|  |
| --- |
| POST /device/addDevice/MS0036 HTTP/1.1  Host: spdongleservice.azurewebsites.net  Cache-Control: no-cache  Content-Type: application/x-www-form-urlencoded  id=MS0036&lat=25.034730&lng=121.568857 |

**Successful Response**

|  |
| --- |
| HTTP Status : 200 |
| {  "id": "MS0036",  "key": "orrSLv5ImNajsLWAAxLEAsV1VH8eoeEZRs3IM2ockbM=",  "IoTHostName": "Michaeldriving61112.azure-devices.net",  "IoTHubProtocol": "TransportType.Mqtt",  "AccelerationAxis": "X",  "HardBreakValue": -9,  "HardAccelerationValue": 9,  "HeartBeatInterval": 15,  "SendMessageInterval": 180  } |

\* The value of IoTHubProtocol: *TransportType.Mqtt / TransportType.Amqp / TransportType.Http1*

**Not Found Response**

|  |
| --- |
| HTTP Status : 404 |
|  |

**Fail Response**

|  |
| --- |
| HTTP Status : 500 |
| {  "message": "Internal Server Error"  } |

## Remove Device

|  |
| --- |
| DELETE /device/removeDevice/{id} |

**Description**

Remove device from IoT Hub by input device ID, or return a http status: 404 (not found) when nothing matches.

**HTTP Headers**

|  |  |  |  |
| --- | --- | --- | --- |
| name | value | required | example |
|  |  |  |  |

**Parameters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| name | type | required | default | example |
| id | string | true |  | Dev12345 |

**Example Code**

|  |
| --- |
| DELETE /device/removeDevice/myDevice123 HTTP/1.1  Host: spdongleservice.azurewebsites.net  Cache-Control: no-cache  Content-Type: application/x-www-form-urlencoded  id= myDevice123 |

**Successful Response**

|  |
| --- |
| HTTP Status : 200 |
| {  "message": "OK"  } |

**Not Found Response**

|  |
| --- |
| HTTP Status : 404 |
|  |

**Fail Response**

|  |
| --- |
| HTTP Status : 500 |
| {  "message": "Internal Server Error"  } |