



Device Connection : IoT Hub device SDK (MQTT)

IoT Hub service connection (IoT Hub Service SDK)

HTTP

```
{
  "individualEnrollment": {
    "registrationId": "WioTerminal",
    "deviceId": "WioTerminal",
    "registrationState": {
      "registrationId": "WioTerminal",
      "assignedHub": "IoTPnPWS-Hub-dndemo0223.azure-devices.net",
      "deviceId": "WioTerminal",
      "status": "assigning",
      "lastUpdatedDateTimeUtc": "2021-05-19T19:38:47.0297981Z",
      "etag": "\"e704ea41-0000-0800-0000-60a569470000\""
    },
    "attestation": {
      "type": "symmetricKey"
    },
    "etag": "\"46011cd6-0000-0800-0000-603ecf0a0000\"",
    "provisioningStatus": "enabled",
    "createdDateTimeUtc": "2021-03-02T23:49:30.838163Z",
    "lastUpdatedDateTimeUtc": "2021-03-02T23:49:30.838163Z",
    "allocationPolicy": "custom",
    "customAllocationDefinition": {
      "webhookUrl": "https://iotpnpws-functions-dndemo0223.azurewebsites.net/api/Dps_Processor?****",
      "apiVersion": "2019-03-31"
    }
  },
  "deviceRuntimeContext": {
    "registrationId": "WioTerminal",
    "currentIotHubHostName": "IoTPnPWS-Hub-dndemo0223.azure-devices.net",
    "currentDeviceId": "WioTerminal",
    "symmetricKey": {},
    "payload": {
      "modelId": "dtmi:seedkk:wioterminal:wioterminal_aziot_example_gps;5"
    }
  },
  "linkedHubs": [
    "IoTPnPWS-Hub-dndemo0223.azure-devices.net"
  ]
}
```

```
{
  "enrollmentGroup": {
    "enrollmentGroupId": "PiC-IoT",
    "attestation": {
      "type": "x509",
      "x509": {
        "caReferences": {
          "primary": "PiCIoT",
          "secondary": ""
        }
      }
    },
    "capabilities": {
      "iotEdge": false
    },
    "etag": "\"ef02a986-0000-0800-0000-60a56ada0000\"",
    "provisioningStatus": "enabled",
    "reprovisionPolicy": {
      "updateHubAssignment": true,
      "migrateDeviceData": false
    },
    "createdDateTimeUtc": "2021-03-03T00:54:50.2949356Z",
    "lastUpdatedDateTimeUtc": "2021-05-19T19:45:30.1302997Z",
    "allocationPolicy": "custom",
    "iotHubs": [
      "IoTPnPWS-Hub-dndemo0223.azure-devices.net"
    ],
    "customAllocationDefinition": {
      "webhookUrl": "https://iotpnpws-functions-dndemo0223.azurewebsites.net/api/Dps_Processor?****",
      "apiVersion": "2019-03-31"
    }
  },
  "deviceRuntimeContext": {
    "registrationId": "sn012386C3FBE9CD37FE",
    "x509": {
      "clientCertificate": "*****",
      "chainElements": [
        "*****",
        "****"
      ]
    },
    "payload": {
      "modelId": "dtmi:com:Microchip:PIC_IoT_WM;1"
    }
  },
  "linkedHubs": [
    "IoTPnPWS-Hub-dndemo0223.azure-devices.net"
  ]
}
```

DPS Register Response

```
{
  "operationId": "4.3a43599d2e524b4d.de60317d-1486-4903-9ed8-3bfb3dbd75e3",
  "status": "assigned",
  "registrationState": {
    "x509": {
      "enrollmentGroupId": "PiC-IoT"
    },
    "registrationId": "sn012386C3FBE9CD37FE",
    "createdDateTimeUtc": "2021-05-19T20:02:52.0909708Z",
    "assignedHub": "IoTPnPWS-Hub-dndemo0223.azure-devices.net",
    "deviceId": "sn012386C3FBE9CD37FE",
    "status": "assigned",
    "substatus": "initialAssignment",
    "lastUpdatedDateTimeUtc": "2021-05-19T20:02:52.2874037Z",
    "etag": "ImVmMDI2MDhjLTAwMDAtMDgwMC0wMDAwLTYwYTU2ZWVjMDAwMCI="
  }
}
```

DeviceCreated event

```
{
  "twin": {
    "deviceId": "sn012386C3FBE9CD37FE",
    "etag": "AAAAAAAAAAAA=",
    "deviceEtag": null,
    "status": "enabled",
    "statusUpdateTime": "0001-01-01T00:00:00",
    "connectionState": "Disconnected",
    "lastActivityTime": "0001-01-01T00:00:00",
    "cloudToDeviceMessageCount": 0,
    "authenticationType": "sas",
    "x509Thumbprint": {
      "primaryThumbprint": null,
      "secondaryThumbprint": null
    },
    "modelId": "",
    "version": 1,
    "properties": {
      "desired": {
        "$metadata": {
          "$lastUpdated": "2021-05-19T19:46:57.3282069Z"
        },
        "$version": 1
      },
      "reported": {
        "$metadata": {
          "$lastUpdated": "2021-05-19T19:46:57.3282069Z"
        },
        "$version": 1
      }
    }
  },
  "hubName": "IoTPnPWS-Hub-dndemo0223",
  "deviceId": "sn012386C3FBE9CD37FE"
}
```

DeviceConnected event

```
{
  "deviceConnectionStateEventInfo": {
    "sequenceNumber": "0000000000000001D70A589786B96B0000000E0000000000000000000001"
  },
  "hubName": "IoTPnPWS-Hub-dndemo0223",
  "deviceId": "sn012386C3FBE9CD37FE"
}
```