# Types defined by the Azure IoT Hub device management library

typedef enum IOTHUB\_TRANSPORT\_TAG

{

COAP\_TCPIP = 0

}IOTHUB\_TRANSPORT;

|  |  |
| --- | --- |
| Value | Description |
| COAP\_TCPIP | Protocol to use for DM channel |

typedef void \*IOTHUB\_CHANNEL\_HANDLE;

Handle to IoT Hub communications channel.

# Azure IoT Hub device management client APIs:

## IOTHUB\_CHANNEL\_HANDLE IoTHubClient\_DM\_Open(const char \*connectionString, IOTHUB\_TRANSPORT transport);

Creates an IoTDM Client and returns a handle to the initialized client which is used in all the IoTDMClient APIs throughout the life of the client.

### Arguments

|  |  |
| --- | --- |
| Name | Description |
| connectionString | A device specific connection string. |
| transport | Transport protocol to use for the device management channel. Use ‘COAP\_TCPIP’ transport. |

### Return

|  |  |
| --- | --- |
| Value | Description |
| IOTHUB\_CLIENT\_OK | The value indicating success. |
| IOTHUB\_CLIENT\_INVALID\_ARG | One or more parameters are not valid. |
| IOTHUB\_CLIENT\_ERROR | The device management library is in an error state. |

## IOTHUB\_CLIENT\_RESULT IoTHubClient\_DM\_Start(IOTHUB\_CHANNEL\_HANDLE channel);

Creates a LWM2M session and connects to the IoT Hub channel specified by the **channel** handle. This call starts the Azure IoT Hub device management library. The call does not return unless the library encounters an unrecoverable error.

### Arguments

|  |  |
| --- | --- |
| Name | Description |
| channel | A channel handle to use for device management operations. |

### Return

|  |  |
| --- | --- |
| Value | Description |
| IOTHUB\_CLIENT\_OK | The value indicating success. |
| IOTHUB\_CLIENT\_INVALID\_ARG | One or more parameters are not valid. |
| IOTHUB\_CLIENT\_ERROR | The client handle is either invalid or the reference client is in an error state. |

## void IoTHubClient\_DM\_Close(IOTHUB\_CHANNEL\_HANDLE channel);

Closes and releases all resources allocated to the device management channel specified by the client handle.

### Arguments

|  |  |
| --- | --- |
| Name | Description |
| channel | The channel handle to close |

## IOTHUB\_CLIENT\_RESULT IoTHubClient\_DM\_Connect(IOTHUB\_CHANNEL\_HANDLE client);

Creates a LWM2M session and connects to the IoT Hub channel specified by the **channel** handle. This API is used in conjunction with the IoTDMClient\_DM\_DoWork() API to have more control over the library’s execution.

### Arguments

|  |  |
| --- | --- |
| Name | Description |
| channel | A channel handle to use for device management operations. |

### Return

|  |  |
| --- | --- |
| Value | Description |
| IOTHUB\_CLIENT\_OK | The value indicating success. |
| IOTHUB\_CLIENT\_INVALID\_ARG | One or more parameters are not valid. |
| IOTHUB\_CLIENT\_ERROR | The client handle is either invalid or the reference client is in an error state. |

## void IoTHubClient\_DM\_DoWork(IOTHUB\_CHANNEL\_HANDLE channel);

Call this function to perform work in the IoT Hub device management library.

### Arguments

|  |  |
| --- | --- |
| Name | Description |
| channel | The device management channel to process requests. |