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Serenity Services and APIs: Overview

There are many services that expose [APIs](#) across the Serenity IoT Platform. This section describes the services, APIs, and how to use them.

Platform Services

This section provides reference information for the Serenity APIs. They conform to the [OpenAPI Specification](#). These services are exposed and can be used for system integration.

Identity Gateway	Authorization gateway service
IoTHub Manager	Manage Azure IoT Hub and devices
Tenant Manager	Tenant management and alerting services
Device Telemetry	Manage Alarms, Rules, Messages and Device Files
Config	Manage Packages, Device groups, Configuration types and Settings
Diagnostics	Logs the information

To learn how to use the [Swagger UI](#) to interact with these services. [click here](#). To learn how to work with these services using other techniques, [click here](#).

Application Services

These services are are only accessible from within the platform. It's possible to contribute to directly to the platform and use these services from within. But these services are not available for external consumption and don't have swagger references.

ASA Manager	Data formatting service
Storage Adapter	Storage service

Azure Services

The Serenity IoT Platform uses several Azure Services. Here is documentation about the services and their APIs.

API DOCUMENTATION	PRODUCT DOCUMENTATION
IoT Hub API	IoT Hub Docs
IoT Hub Device Provisioning	DPS Docs
Data Lake Storage API	Data Lake Docs

API DOCUMENTATION	PRODUCT DOCUMENTATION
Cosmos DB API	Cosmos DB Docs
Key Vault API	Key Vault API
Stream Analytics API	Stream Analytics Docs
Time Series Insights API	Time Series Insights Docs
Identity Management (B2C) API	B2C Docs
Blob Storage API	Blob Storage Docs
Table Storage API	Table Storage Docs



Serenity Authorization Flow

Request Headers

All API calls must include the following request headers

HEADER	VALUE
Authorization	Bearer {token}.
Content-Type	application/json



Serenity and Swagger UI

Each Serenity web service has a Swagger UI that allows you to visualize and interact with the Serenity APIs.

Swagger Paths

Each Serenity web service has a specific path that exposes an interactive Swagger UI to the APIs as follows:

SERVICE	PATH
Identity Gateway	auth/index.html
Config	config/index.html
Device Telemetry	telemetry/index.html
Diagnostics	diagnostics/index.html
IoTHub Manager	iothubmanager/index.html
Tenant Manager	tenantmanager/index.html

Using Swagger UI

To access the Swagger UI, append the *path* to the *platform-url* using the following syntax:

```
https://{platform-url}/{Swagger Path}
```

For example, the following will take you to the Identity Gateway in CRSL's Development environment:

```
https://crsliot-aks-dev.centralus.cloudapp.azure.com/iothubmanager/index.html
```

Additional Details

For additional information on Swagger UI, check out the [Swagger UI Documentation](#)



Prerequisites for working with APIs



How to call Serenity REST with Postman

Check out: <https://docs.microsoft.com/en-us/rest/api/azure/#how-to-call-azure-rest-apis-with-postman>



Identity Gateway Service REST API

The Identity Gateway service is used to authenticate and manage users.

Within each Serenity Instance an interactive Swagger UI is available at the following path
`https://{platform-url}/auth/index.html` For more information about Swagger UI, [click here](#).

REST operation groups

The Identity Gateway service REST API provides operations for working with the following:

OPERATION GROUP	DESCRIPTION
Authorize	Log in or out and context operations.
Configuration	Deals with OpenId configurations.
SystemAdmin	CRUD operations of System Admin feature.
UserSettings	CRUD Operations of user settings.
UserTenant	CRUD operations of user data and associated Tenant.
Status	Health Status operations of the Service.



Authorize

Service: Identity Gateway

Operations

Authorize	Authorizes user and redirects to callback
Logout	Returns to the redirect url passed on successful logout
Token	Returns JWT token matching claim
Tenant	Used to switch tenants
Callback	Called by B2C to redirect



Authorize - Authorize

Authorizes user through configured Authorization Provider and redirects to B2c Uri.

Http Request

GET /connect/authorize

URI Parameters

NAME	REQUIRED	TYPE	DESCRIPTION
redirect_uri	Yes	string	callback url from B2C
state	Yes	string	Current State of auth
client_id	Yes	string	client ID GUID
nonce	Yes	string	nonce
tenant	Yes	string	tenant
invite	Yes	string	invitation string

Responses

NAME	TYPE	DESCRIPTION
200 OK		



Authorize - Token

Returns JWT token matching claim. Used by user registration to convert and invited user to a enrolled user.

Http Request

POST /connect/token

Request Headers

HEADER	VALUE
Content-Type	application/json

Request Body

In the request body, supply a JSON representation of ClientCredentialInput object:

NAME	REQUIRED	TYPE	DESCRIPTION
client_id	true	string	ClientId of B2C
client_secret	true	string	Client secret AAD
scope	true	string	Tenant Id for which token need to be generated

Responses

NAME	TYPE	DESCRIPTION
200 OK	string	Returns JWT token

Example

Sample Request

POST /connect/token

Sample Body

```
{
  "client_id": "95d3c562-23eb-4e2d-8d3d-ea2448706934",
  "client_secret": "SH90ZgTR-MTObGLbO/u[7qIc-MP0vtAs"
}
```

Sample Response

[illegible]



Authorize - Logout

Returns to the redirect url passed on successful logout.

Http Request

```
GET /connect/logout?post_logout_redirect_uri={redirectUrl}
```

Request Headers

HEADER	VALUE
Content-Type	application/json

Request Body

In the request body, supply a JSON representation of ClientCredentialInput object:

NAME	REQUIRED	TYPE	DESCRIPTION
post_logout_redirect_uri	true	string	URI to redirect to on logout.

Responses

NAME	TYPE	DESCRIPTION
200 OK	Success	

Examples

Log out of CRSL Dev

```
GET /connect/logout?post_logout_redirect_uri=https://crsliot-aks-dev.centralus.cloudapp.azure.com/
```



Authorize - Tenant

Used to switch tenants from one tenant to other available tenant of logged in user

Http Request

POST /connect/switch/{tenantId}

Request Headers

HEADER	VALUE
Content-Type	application/json

Responses

NAME	TYPE	DESCRIPTION
200 OK	string	Sends back the update token with the latest tenant.

Examples

Tenant Switch

POST /connect/switch/233a1ca2-6855-43c5-8b9c-c7f85a1dd520

Sample Response

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpasasassXVCJ9.eyJzdWIiOiIzZTMwZjMwMmS00ZjU3LTRiM2UtOTQ5S0ZmY4ZTkzODcwYjUiLCJuYWVlIjoiaWlmldz2FuYWROIEtvdGhhIENXIiwiaWF0IjoxNjA0Mjk2ODIyLjLCj0ZW5hbnQiOiIyMzNhMWNhMi02ODU1LTQzYzUtOGI5Yy1jN2Y4NWExZGQ1MjAiLCJyb2xlIjoieWRtaW4iLCJpc19zeXN0ZW1BZG1pbSI6dHJ1ZSwiYXZhawxhYmxlX3RlbmFudHMIOlsiMjA5ZDdmNzktMzlhYS00ZTJhLThlOWMtNTZMcMDRMnZyZmY5IiwicmVmZyYTFjYTIitNg1NS00M2M1LThiOWMtYzdmODVhMWRKNTIwIiwiaYTktMDM1YTktZTFjNS00YmIxLWI3MzktM2I2OTQ5ZTU4NjY0IiwiaWZjIjA4NDM0NTEtNEEzNS00NTg5LTk4YmItMGE5YTVmZmUyOGNlIl0sImV4cCI6MTYwNjYzYTEzMTEzMSwiaXNzIjoiaHR0cHM6Ly9jcncsaw90LWFrcy1kZXlyY2VudHJhbnHVZmNsbnVkbWwLWmF6dXJlLnVnbS9hdXR0IiwiaXVkiOiwiSW9UUGxhdGZvcmlifQ.jUCYmOuHYM4fkNOBCQ60bAvQ--H9uDrNcgcsuojwhEChPXz1anlaGzPuRZpfK7rhSJzwuC-jrBLf23nL7pxkQA2mUV7oahKVf6WVhOea7012HnWiK3mqr_l3lDydsuofoisjdijahsduihazofdjajlfk/szo/hafdnlozhjkhfhduzhfauszufhcjaCNjQp9WH2Wz-tqG2LZjh7zutCmbBAvXd8gyBMqqOwXAVU6yxveMxhmPhyk6LWJSc2fGxsprxNTACHNq89KETQo742peRMO95Xj3dobJRBiKbmglvwuEy2FkzsNjq25ikj6JOsQsgtraFABA35mdGqhLrikVuhyuihjzmsFMDKU06-1 -ot_c4FSPN9Dc_0oLSL5sB6tRW-zg6rPhhUu_ISLyHh0J51lw



POST Connect Callback

This Method executes the callback method and redirects to call back url

Http Request

```
POST /connect/callback
```

Request Headers

HEADER	VALUE
Content-Type	application/json

Sample Request

Request Body

```
Below are the details to be sent as part of form body.  
state  
id_token  
error  
error_description
```

Responses

NAME	TYPE	DESCRIPTION
200 OK	Success	



Configuration

Service: Identity Gateway

Operations

openid configuration	Fetches the Open Id configurations such as issuer, redirectUri, clientId, scope etc., of the environment.
openid configuration jwks	Returns the Json web key of the environment's public key.



Configuration - OpenID Configuration

This Method returns the open ID Provider Configuration such as issuer, redirectUri, clientId, scope etc., based on the requested environment from the App Configuration.

HTTP Request

GET /.well-known/openid-configuration

Permissions

ReadAll

Request Headers

HEADER	VALUE
Content-Type	application/json

Responses

NAME	TYPE	DESCRIPTION
200 OK		

Response Object 1

```
{
  "issuer": "https://{platform-url}/auth",
  "jwks_uri": "https://{platform-url}/auth/.well-known/openid-configuration/jwks",
  "authorization_endpoint": "{platform-url}/auth/connect/authorize",
  "end_session_endpoint": "https://{platform-url}/auth/connect/logout",
  "scopes_supported": [
    "openid",
    "profile"
  ],
  "claims_supported": [
    "sub",
    "name",
    "tenant",
    "role"
  ],
  "grant_types_supported": [
    "implicit"
  ],
  "response_types_supported": [
    "token",
    "id_token"
  ],
  "response_modes_supported": [
    "query"
  ]
}
```



System Admin

Service: Identity Gateway

Operations

OPERATION	DESCRIPTION
Non System Admins	Returns all the non system admins of tenant
System Admins	Returns all the system admins of tenant
Delete System Admin	Delete the selected system admin
Create System Admin	Creates system admin



Non System Admins

This Method returns all the non system admins in the system.

Permissions

SystemAdmin

Http Request

GET /auth/v1/systemAdmin/getAllNonSystemAdmins
--

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

<pre>{ "Method": "string", "Models": [{ "userId": "string", "name": "string" }] }</pre>

Response

<pre>{ "Method": "GetAllUsers", "Models": [{ "userId": "a05qe1a04-31bf-4219-9c1b-b7fa7bfedbfbc", "name": "TestAccount - Admin" }] }</pre>

Security

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



System Admins

This Method returns all system admins in the system.

Permissions

SystemAdmin

Http Request

GET /auth/v1/systemAdmin/getAllSystemAdmins

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "userId": "string",
      "name": "string"
    }
  ]
}
```

Response

```
{
  "Method": null,
  "Models": [
    {
      "userId": "b013febd-466d-4694-8f0d-c151ad32023b",
      "name": "TestAccount - SystemAdmin"
    }
  ]
}
```

Security

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Delete System Admin

This Method deletes system admins in the system.

Permissions

SystemAdmin

Http Request

DELETE /auth/v1/systemAdmin/{userId}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "name": "string",
  "partitionKey": "string",
  "rowKey": "string",
  "timestamp": "2020-11-03T06:43:52.165Z",
  "eTag": "string"
}
```

Response

```
{
  "name": "UserName",
  "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "timestamp": "2020-07-21T02:18:37.1441911+00:00",
  "eTag": "W/\"datetime'2020-07-21T02%3A18%3A37.1441911Z'\""
}
```

Security

Type: OpenID Connect
Flow: implicit
Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Create System Admin

This Method is used to create system admins in the system.

Permissions

SystemAdmin

Http Request

POST /auth/v1/systemAdmin

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

```
{
  "UserId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "Name": "userName"
}
```

Response Schema

```
{
  "name": "string",
  "partitionKey": "string",
  "rowKey": "string",
  "timestamp": "2020-11-03T06:36:46.566Z",
  "eTag": "string"
}
```

Response

```
{
  "name": "userName",
  "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "timestamp": "2020-10-30T11:19:50.7436302+00:00",
  "eTag": "W/\"datetime'2020-10-30T11%3A19%3A50.7436302Z'\""
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



User Settings

Service: Identity Gateway

Operations

OPERATION	DESCRIPTION
User Settings of Loggedin User	Returns user settings of loggedIn UserId
User Settings of input User	Returns user settings of input UserId
User Settings by setting Name	Returns user settings based on settings name
User Settings by UserId and Setting Name	Returns user settings based on userId and settings name
User Settings by ActiveDeviceGroup	Returns user settings of loggedIn UserId and ActiveDevice group
Create UserSettings by Claims UserId	Create User Setting with loggedIn UserId
Create UserSettings	Create User Settings
Update UserSettings of Claims User	Update Settings for loggedIn User
Update UserSettings	Updates user settings
Update UserSetting of ActiveDevicegroup	Update setting value of active device group setting
Delete Usersetting	Delete User settings
Delete Usersetting by inputs	Delete User settings by matching the input
GET LatestBuildNumber	Returns the latest build number of that particular environment



Get User Settings of loggedin User

This Method returns all the user settings of loggedIn userId

Permissions

ReadAll

Http Request

GET /auth/v1/settings/all

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "value": "string",
      "userId": "string",
      "settingKey": "string",
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T06:44:26.955Z",
      "eTag": "string"
    }
  ]
}
```

Response

```
{
  "Method": "Get",
  "Models": [
    {
      "value": "2ceeeccf-f775-4ea3-b84e-5ea26b125ab6",
      "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
      "settingKey": "209d7f79-39aa-4e2a-8e9c-56f04f7633f9-ActivDeviceGroup",
      "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
      "rowKey": "209d7f79-39aa-4e2a-8e9c-56f04f7633f9-ActivDeviceGroup",
      "timestamp": "2020-09-22T05:42:01.472020+00:00",
      "eTag": "W\"datetime'2020-09-22T05%3A42%3A01472020Z'\\"
    },
    {
      "value": "233a1ca2-6855-43c5-8b9c-c7f85a1dd520",
      "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
      "settingKey": "LastUsedTenant",
      "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
      "rowKey": "LastUsedTenant",
      "timestamp": "2020-10-14T05:43:26.329743+00:00",
      "eTag": "W\"datetime'2020-10-14T05%3A43%3A263297439Z'\\"
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



User Settings of input User

This Method returns the settings of input userId

Permissions

ReadAll

Http Request

GET /auth/v1/settings/{userId}/all

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

GET /auth/v1/settings/3e30f301-4f57-4b3e-949a-3ff8e93870b5/all
--

Response Schema

<pre>{ "Method": "string", "Models": [{ "value": "string", "userId": "string", "settingKey": "string", "partitionKey": "string", "rowKey": "string", "timestamp": "2020-11-03T06:44:26.955Z", "eTag": "string" }] }</pre>

Response

```
{
  "Method": "Get",
  "Models": [
    {
      "value": "2ceeeccf-f775-4ea3-b84e-5ea26b125ab6",
      "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
      "settingKey": "209d7f79-39aa-4e2a-8e9c-56f04f7633f9-ActivDeviceGroup",
      "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
      "rowKey": "209d7f79-39aa-4e2a-8e9c-56f04f7633f9-ActivDeviceGroup",
      "timestamp": "2020-09-22T05:42:01.472020+00:00",
      "eTag": "W\"datetime'2020-09-22T05%3A42%3A01472020Z'\\"
    },
    {
      "value": "233a1ca2-6855-43c5-8b9c-c7f85a1dd520",
      "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
      "settingKey": "LastUsedTenant",
      "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
      "rowKey": "LastUsedTenant",
      "timestamp": "2020-10-14T05:43:26.329743+00:00",
      "eTag": "W\"datetime'2020-10-14T05%3A43%3A263297439Z'\\"
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



User Settings by setting Name

This Method returns the settings based on the loggedIn userId and Setting Name

Permissions

ReadAll

Http Request

GET /auth/v1/settings/{setting}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

GET /auth/v1/settings/LastUsedTenant

Response Schema

```
{
  "value": "string",
  "userId": "string",
  "settingKey": "string",
  "partitionKey": "string",
  "rowKey": "string",
  "timestamp": "2020-11-03T06:45:21.739Z",
  "eTag": "string"
}
```

Response

```
{
  "value": "233a1ca2-6855-43c5-8b9c-c7f85a1dd520",
  "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "settingKey": "LastUsedTenant",
  "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "LastUsedTenant",
  "timestamp": "2020-10-14T05:43:26.3297439+00:00",
  "eTag": "W/\"datetime'2020-10-14T05%3A43%3A263297439Z'\""}
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Get User Settings by UserId and Setting Name

This Method returns the settings based on UserId and Setting Name

Permissions

ReadAll

Http Request

GET /auth/v1/settings/{userId}/{setting}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

GET /auth/v1/settings/3e30f301-4f57-4b3e-949a-3ff8e93870b5/LastUsedTenant

Response Schema

{
 "value": "string",
 "userId": "string",
 "settingKey": "string",
 "partitionKey": "string",
 "rowKey": "string",
 "timestamp": "2020-11-03T06:45:21.739Z",
 "eTag": "string"
}

Response

```
{
  "value": "233a1ca2-6855-43c5-8b9c-c7f85a1dd520",
  "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "settingKey": "LastUsedTenant",
  "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "LastUsedTenant",
  "timestamp": "2020-10-14T05:43:26.3297439+00:00",
  "eTag": "W/\"datetime'2020-10-14T05%3A43%3A263297439Z'\""}
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Get User Settings by ActiveDeviceGroup

This Method returns the settings with the settingName **ActiveDeviceGroup**

Permissions

ReadAll

Http Request

GET /auth/v1/settings/ActiveDeviceGroup

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

GET /auth/v1/settings/ActiveDeviceGroup

Response Schema

<pre>{ "value": "string", "userId": "string", "settingKey": "string", "partitionKey": "string", "rowKey": "string", "timestamp": "2020-11-03T06:45:21.739Z", "eTag": "string" }</pre>

Response

```
{
  "value": "cd9bba84-274a-4d69-8e49-81f4933d3a36",
  "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "settingKey": "233a1ca2-6855-43c5-8b9c-c7f85a1dd520-ActiveDeviceGoup",
  "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "233a1ca2-6855-43c5-8b9c-c7f85a1dd520-ActiveDeviceGoup",
  "timestamp": "2020-09-04T05:58:21.4502607+00:00",
  "eTag": "W/\"datetime'2020-09-04T05%3A58%3A214502607Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Create UserSettings Using Claims User

This Method is used to save the user settings based on claims userId

Permissions

UserManage

Http Request

POST /auth/v1/settings/{setting}/{value}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

POST /auth/v1/settings/test/test

Response Schema

```
{
  "value": "string",
  "userId": "string",
  "settingKey": "string",
  "partitionKey": "string",
  "rowKey": "string",
  "timestamp": "2020-11-03T06:45:21.739Z",
  "eTag": "string"
}
```

Response

```
{
  "value": "test",
  "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "settingKey": "test",
  "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "test",
  "timestamp": "2020-10-29T10:18:17.9415023+00:00",
  "eTag": "W/\"datetime'2020-10-29T10%3A18%3A179415023Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Create UserSettings

This Method is used to save the user settings based on input userId

Permissions

UserManage

Http Request

POST /auth/v1/settings/{userId}/{setting}/{value}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

POST /auth/v1/settings/3e30f301-4f57-4b3e-949a-3ff8e93870b5/test/test

Response Schema

<pre>{ "value": "string", "userId": "string", "settingKey": "string", "partitionKey": "string", "rowKey": "string", "timestamp": "2020-11-03T06:45:21.739Z", "eTag": "string" }</pre>

Response

```
{
  "value": "test",
  "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "settingKey": "test",
  "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "test",
  "timestamp": "2020-10-29T10:18:17.9415023+00:00",
  "eTag": "W/\"datetime'2020-10-29T10%3A18%3A179415023Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Update UserSettings Using Claims User

This Method is used to save the user settings based on claims userId

Permissions

UserManage

Http Request

POST /auth/v1/settings/{setting}/{value}
--

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

POST /auth/v1/settings/test/UpdatedValue
--

Response Schema

<pre>{ "value": "string", "userId": "string", "settingKey": "string", "partitionKey": "string", "rowKey": "string", "timestamp": "2020-11-03T06:45:21.739Z", "eTag": "string" }</pre>

Response

```
{
  "value": "updatedValue",
  "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "settingKey": "test",
  "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "test",
  "timestamp": "0001-01-01T00:00:00+00:00",
  "eTag": "W/\"datetime'2020-10-29T10%3A34%3A484352166Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Update UserSettings

This Method is used to save the user settings based on inputs passed

Permissions

UserManage

Http Request

POST /auth/v1/settings/{userId}/{setting}/{value}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

POST /auth/v1/settings/3e30f301-4f57-4b3e-949a-3ff8e93870b5/test/UpdatedValue

Response Schema

```
{
  "value": "string",
  "userId": "string",
  "settingKey": "string",
  "partitionKey": "string",
  "rowKey": "string",
  "timestamp": "2020-11-03T06:45:21.739Z",
  "eTag": "string"
}
```

Response

```
{
  "value": "updatedValue",
  "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "settingKey": "test",
  "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "test",
  "timestamp": "0001-01-01T00:00:00+00:00",
  "eTag": "W/\"datetime'2020-10-29T10%3A34%3A484352166Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Update UserSetting of ActiveDevicegroup

This Method is used to save the user settings based on claims userId and ActiveDeviceGroup Setting value

Permissions

UserManage

Http Request

POST /auth/v1/settings/ActiveDeviceGroup/{value}
--

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

POST /auth/v1/settings/ActiveDeviceGroup/UpdatedValue

Response Schema

<pre>{ "value": "string", "userId": "string", "settingKey": "string", "partitionKey": "string", "rowKey": "string", "timestamp": "2020-11-03T06:45:21.739Z", "eTag": "string" }</pre>

Response

```
{
  "value": "updatedValue",
  "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "settingKey": "ActiveDeviceGroup",
  "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "test",
  "timestamp": "0001-01-01T00:00:00+00:00",
  "eTag": "W/\"datetime'2020-10-29T10%3A34%3A484352166Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



DELETE Usersetting

This Method is used to delete the user settings based on claims userId and Setting value

Permissions

UserManage

Http Request

POST /auth/v1/settings/test

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

POST /auth/v1/settings/test

Response Schema

<pre>{ "value": "string", "userId": "string", "settingKey": "string", "partitionKey": "string", "rowKey": "string", "timestamp": "2020-11-03T06:45:21.739Z", "eTag": "string" }</pre>

Response

```
{  
  "value": "updatedValue",  
  "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",  
  "settingKey": "test",  
  "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",  
  "rowKey": "test",  
  "timestamp": "2020-10-29T10:34:48.4352166+00:00",  
  "eTag": "*"   
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



DELETE Usersetting based on inputs

This Method is used to delete the user settings based on userId and Setting value

Permissions

UserManage

Http Request

POST /auth/v1/settings/3e30f301-4f57-4b3e-949a-3ff8e93870b5/test

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

POST /auth/v1/settings/3e30f301-4f57-4b3e-949a-3ff8e93870b5/test

Response Schema

```
{
  "value": "string",
  "userId": "string",
  "settingKey": "string",
  "partitionKey": "string",
  "rowKey": "string",
  "timestamp": "2020-11-03T06:45:21.739Z",
  "eTag": "string"
}
```

Response

```
{  
  "value": "updatedValue",  
  "userId": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",  
  "settingKey": "test",  
  "partitionKey": "3e30f301-4f57-4b3e-949a-3ff8e93870b5",  
  "rowKey": "test",  
  "timestamp": "2020-10-29T10:34:48.4352166+00:00",  
  "eTag": "*"   
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



GET LatestBuildNumber

This Method is used to fetch the latest build number deployed

Permissions

ReadAll

Http Request

GET /auth/v1/settings/LatestBuildNumber

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

GET /auth/v1/settings/LatestBuildNumber

Response Schema

<pre>{ "value": "string", "userId": "string", "settingKey": "string", "partitionKey": "string", "rowKey": "string", "timestamp": "2020-11-03T06:45:21.739Z", "eTag": "string" }</pre>

Response

```
{  
  "value": "72086",  
  "userId": null,  
  "settingKey": null,  
  "partitionKey": null,  
  "rowKey": null,  
  "timestamp": "0001-01-01T00:00:00+00:00",  
  "eTag": null  
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



User Tenant Controller

Service: Identity Gateway

User Tenant Controller is used to maintain and manage the user and tenant related details.

Operations

OPERATION	DESCRIPTION
Users	Returns all the users of logged in users tenant
Tenants	Returns all the tenants of logged in user
User Tenants	Returns all tenants of selected user
User Details	Returns the user details of selected user
Create UserTenant from claim User	Creates UserTenant from logged in user
Create UserTenant from input User	Creates UserTenant from input user
Update UserTenant of claim User	Updates user with the logged in user
Update UserTenant of input User	Updates user with input user details
Delete claim user	Delete the logged in user
Delete user	Delete the selected user
Delete all users	Deletes all users of logged in users tenant
Invite user	Added user will be invited to users email



Users

This Method returns all the user of the loggedIn user's tenant

Permissions

ReadAll

Http Request

GET /auth/v1/tenants/users

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "roles": "string",
      "name": "string",
      "type": "string",
      "userId": "string",
      "tenantId": "string",
      "roleList": [
        "string"
      ],
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T07:08:21.814Z",
      "eTag": "string"
    }
  ]
}
```

Response


```
{
  "Method": "GetUsers",
  "Models": [
    {
      "roles": "[\"admin\"]",
      "name": "Test User",
      "type": "Member",
      "userId": "0568617a-0a2e-49be-9591-c59163ce2e7f",
      "tenantId": "233a1ca1-6855-43c5-8b9c-c7f85a1dd520",
      "roleList": [
        "admin"
      ],
      "partitionKey": "0568617a-0a2e-49be-9591-c59163ce2e7f",
      "rowKey": "233a1ca1-6855-43c5-8b9c-c7f85a1dd520",
      "timestamp": "2020-08-17T18:30:24.5966896+00:00",
      "eTag": "W/\"datetime'2020-08-17T18%3A30%3A24.5966896Z'\""
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Tenants

This Method returns all the tenants of the loggedIn user

Permissions

ReadAll

Http Request

GET /auth/v1/tenants/all

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "roles": "string",
      "name": "string",
      "type": "string",
      "userId": "string",
      "tenantId": "string",
      "roleList": [
        "string"
      ],
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T07:08:21.814Z",
      "eTag": "string"
    }
  ]
}
```

Response

```

{
  "Method": "GetTenants",
  "Models": [
    {
      "roles": "[\"admin\"]",
      "name": "test",
      "type": "Member",
      "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
      "tenantId": "209d7f77-39aa-4e2a-8e9c-56f04f7633f9",
      "roleList": [
        "admin"
      ],
      "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
      "rowKey": "209d7f77-39aa-4e2a-8e9c-56f04f7633f9",
      "timestamp": "2020-07-17T08:49:06.5977473+00:00",
      "eTag": "W/\"datetime'2020-07-17T08%3A49%3A06.5977473Z'\""
    },
    {
      "roles": "[\"admin\"]",
      "name": "test",
      "type": "Member",
      "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
      "tenantId": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
      "roleList": [
        "admin"
      ],
      "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
      "rowKey": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
      "timestamp": "2020-07-17T06:14:46.3943858+00:00",
      "eTag": "W/\"datetime'2020-07-17T06%3A14%3A46.3943858Z'\""
    }
  ]
}

```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



User Tenants

This Method returns all the tenants of the user

Permissions

ReadAll

Http Request

GET /auth/v1/tenants/{userId}/all

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Response

GET /auth/v1/tenants/3e30fq301-4f57-4b3e-949a-3ff8e93870b5/all
--

Response Schema

<pre>{ "Method": "string", "Models": [{ "roles": "string", "name": "string", "type": "string", "userId": "string", "tenantId": "string", "roleList": ["string"], "partitionKey": "string", "rowKey": "string", "timestamp": "2020-11-03T07:08:21.814Z", "eTag": "string" }] }</pre>

Response

```
{
  "Method": "GetTenants",
  "Models": [
    {
      "roles": "[\"admin\"]",
      "name": "test",
      "type": "Member",
      "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
      "tenantId": "209d7f77-39aa-4e2a-8e9c-56f04f7633f9",
      "roleList": [
        "admin"
      ],
      "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
      "rowKey": "209d7f77-39aa-4e2a-8e9c-56f04f7633f9",
      "timestamp": "2020-07-17T08:49:06.5977473+00:00",
      "eTag": "W/\"datetime'2020-07-17T08%3A49%3A06.5977473Z'\""
    },
    {
      "roles": "[\"admin\"]",
      "name": "test",
      "type": "Member",
      "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
      "tenantId": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
      "roleList": [
        "admin"
      ],
      "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
      "rowKey": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
      "timestamp": "2020-07-17T06:14:46.3943858+00:00",
      "eTag": "W/\"datetime'2020-07-17T06%3A14%3A46.3943858Z'\""
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



User details

This Method returns the details of the input user

Permissions

ReadAll

Http Request

GET /auth/v1/tenants/{userId}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Response

GET /auth/v1/tenants/3e30fq301-4f57-4b3e-949a-3ff8e93870b5
--

Response Schema

<pre>{ "Method": "string", "Models": [{ "roles": "string", "name": "string", "type": "string", "userId": "string", "tenantId": "string", "roleList": ["string"], "partitionKey": "string", "rowKey": "string", "timestamp": "2020-11-03T07:08:21.814Z", "eTag": "string" }] }</pre>

Response

```
{
  "roles": "[\"admin\"]",
  "name": "test",
  "type": "Member",
  "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "tenantId": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
  "roleList": [
    "admin"
  ],
  "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
  "timestamp": "2020-07-17T06:14:46.3943858+00:00",
  "eTag": "W\"datetime'2020-07-17T06%3A14%3A463943858Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Create User from Claim User

Creates a new user with the userId, tenantId present in the claims.

Permissions

UserManage

Http Request

POST /auth/v1/tenants

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

In the request body, supply a JSON representation of UserTenantModel object.

Following are the fields which are required for the user to be created successfully.

PROPERTY	VALUE	REQUIRED
Name	Name of the user	Required
Type	Current status of the user ie., Invited or Member	Required
Roles	Role of the user i.e., admin, readonly, contributor	Required
UserId	Determines the identity of each user	Required
TenantId	Tenant to which user maps	Required

Sample Request

<pre>{ "roles": "[\"admin\"]", "name": "UserName", "type": "Member" }</pre>

Response Schema


```
{
  "Method": "string",
  "Models": [
    {
      "roles": "string",
      "name": "string",
      "type": "string",
      "userId": "string",
      "tenantId": "string",
      "roleList": [
        "string"
      ],
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T07:08:21.814Z",
      "eTag": "string"
    }
  ]
}
```

Sample Response

```
{
  "roles": "[\"admin\"]",
  "name": "UserName",
  "type": "Member",
  "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "tenantId": "tenantId",
  "roleList": [
    "admin"
  ],
  "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "209d7f77-39aa-4e2a-8e9c-56f04f7633f9",
  "timestamp": "2020-10-30T07:52:52.4919217+00:00",
  "eTag": "W\"datetime'2020-10-30T07%3A52%3A524919217Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>



Create User from input User

Creates a new user with the userId and tenantId present in the claims.

Permissions

UserManage

Http Request

POST /auth/v1/tenants/{userId}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

In the request body, supply a JSON representation of UserTenantModel object.

Following are the fields which are required for the user to be created successfully.

PROPERTY	VALUE	REQUIRED
Name	Name of the user	Required
Type	Current status of the user ie., Invited or Member	Required
Roles	Role of the user i.e., admin, readonly, contributor	Required
UserId	Determines the identity of each user	Required
TenantId	Tenant to which user maps	Required

Sample Request

<pre>{ "roles": "[\"admin\"]", "name": "UserName", "type": "Member", "userId": "UserId" }</pre>

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "roles": "string",
      "name": "string",
      "type": "string",
      "userId": "string",
      "tenantId": "string",
      "roleList": [
        "string"
      ],
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T07:08:21.814Z",
      "eTag": "string"
    }
  ]
}
```

Sample Response

```
{
  "roles": "[\\\"admin\\\"]",
  "name": "UserName",
  "type": "Member",
  "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "tenantId": "tenantId",
  "roleList": [
    "admin"
  ],
  "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "209d7f77-39aa-4e2a-8e9c-56f04f7633f9",
  "timestamp": "2020-10-30T07:52:52.4919217+00:00",
  "eTag": "W/\\\"datetime'2020-10-30T07%3A52%3A54919217Z'\\\""}
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>



Update UserTenant of Claim User

Updates user with the userId, tenantId present in the claims.

Permissions

UserManage

Http Request

PUT /auth/v1/tenants

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

In the request body, supply a JSON representation of UserTenantModel object.

Following are the fields which are required for the user to be created successfully.

PROPERTY	VALUE	REQUIRED
Name	Name of the user	Required
Type	Current status of the user ie., Invited or Member	Required
Roles	Role of the user i.e., admin, readonly, contributor	Required
UserId	Determines the identity of each user	Required
TenantId	Tenant to which user maps	Required

Sample Request

<pre>{ "roles": "[\"admin\"]", "name": "UserName", "type": "Member" }</pre>

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "roles": "string",
      "name": "string",
      "type": "string",
      "userId": "string",
      "tenantId": "string",
      "roleList": [
        "string"
      ],
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T07:08:21.814Z",
      "eTag": "string"
    }
  ]
}
```

Sample Response

```
{
  "roles": "[\"admin\"]",
  "name": null,
  "type": null,
  "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "tenantId": "209d7f77-39aa-4e2a-8e9c-56f04f7633f9",
  "roleList": [
    "admin"
  ],
  "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "209d7f77-39aa-4e2a-8e9c-56f04f7633f9",
  "timestamp": "0001-01-01T00:00:00+00:00",
  "eTag": "W/\"datetime'2020-10-30T08%3A02%3A23.691717Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Update UserTenant of input User

Updates user with the input userId and tenantId present in the claims.

Permissions

UserManage

Http Request

PUT /auth/v1/tenants/{userId}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

In the request body, supply a JSON representation of UserTenantModel object.

Following are the fields which are required for the user to be created successfully.

PROPERTY	VALUE	REQUIRED
Name	Name of the user	Required
Type	Current status of the user ie., Invited or Member	Required
Roles	Role of the user i.e., admin, readonly, contributor	Required
UserId	Determines the identity of each user	Required
TenantId	Tenant to which user maps	Required

Sample Request

<pre>{ "roles": "[\"admin\"]", "name": "UserName", "type": "Member", "userId": "UserId" }</pre>

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "roles": "string",
      "name": "string",
      "type": "string",
      "userId": "string",
      "tenantId": "string",
      "roleList": [
        "string"
      ],
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T07:08:21.814Z",
      "eTag": "string"
    }
  ]
}
```

Sample Response

```
{
  "roles": "[\"admin\"]",
  "name": "UserName",
  "type": "Member",
  "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "tenantId": "tenantId",
  "roleList": [
    "admin"
  ],
  "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "209d7f77-39aa-4e2a-8e9c-56f04f7633f9",
  "timestamp": "2020-10-30T07:52:52.4919217+00:00",
  "eTag": "W/\"datetime'2020-10-30T07%3A52%3A54919217Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Delete claim user

This Method deletes the user based on userId and tenantId present in claim

Permissions

UserManage

Http Request

DELETE /auth/v1/tenants

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "roles": "string",
      "name": "string",
      "type": "string",
      "userId": "string",
      "tenantId": "string",
      "roleList": [
        "string"
      ],
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T07:08:21.814Z",
      "eTag": "string"
    }
  ]
}
```

Response


```
{
  "roles": "[\"admin\"]",
  "name": "test",
  "type": "Member",
  "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "tenantId": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
  "roleList": [
    "admin"
  ],
  "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
  "timestamp": "2020-07-17T06:14:46.3943858+00:00",
  "eTag": "W/\"datetime'2020-07-17T06%3A14%3A43943858Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Delete user

This Method deletes the user based on input userId and tenantId present in claim

Permissions

UserManage

Http Request

DELETE /auth/v1/tenants/{userId}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "roles": "string",
      "name": "string",
      "type": "string",
      "userId": "string",
      "tenantId": "string",
      "roleList": [
        "string"
      ],
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T07:08:21.814Z",
      "eTag": "string"
    }
  ]
}
```

Response

```
{
  "roles": "[\"admin\"]",
  "name": "test",
  "type": "Member",
  "userId": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "tenantId": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
  "roleList": [
    "admin"
  ],
  "partitionKey": "3e30fq301-4f57-4b3e-949a-3ff8e93870b5",
  "rowKey": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
  "timestamp": "2020-07-17T06:14:46.3943858+00:00",
  "eTag": "W/\"datetime'2020-07-17T06%3A14%3A43943858Z'\""
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Delete all users

This Method deletes all the user of the loggedIn user's tenant

Permissions

UserManage

Http Request

DELETE /auth/v1/tenants/all

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "roles": "string",
      "name": "string",
      "type": "string",
      "userId": "string",
      "tenantId": "string",
      "roleList": [
        "string"
      ],
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T07:08:21.814Z",
      "eTag": "string"
    }
  ]
}
```

Response

```
{
  "Method": "GetUsers",
  "Models": [
    {
      "roles": "[\"admin\"]",
      "name": "Test User",
      "type": "Member",
      "userId": "0568617a-0a2e-49be-9591-c59163ce2e7f",
      "tenantId": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
      "roleList": [
        "admin"
      ],
      "partitionKey": "0568617a-0a2e-49be-9591-c59163ce2e7f",
      "rowKey": "233a1ca3-6855-43c5-8b9c-c7f85a1dd520",
      "timestamp": "2020-08-17T18:30:24.59668+00:00",
      "eTag": "\"datetime'2020-08-17T18%3A30%3A25966896Z'\""
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Invite user

Creates a new user when user gets invites to the system.

Permissions

UserManage

Http Request

POST /auth/v1/tenants/invite

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

In the request body, supply a JSON representation of Invitation object.

Following are the fields which are required for the user to be created successfully.

PROPERTY	VALUE	REQUIRED
EmailAddress	Email address of the user to be invited	Required
Role	Role of user to which needs to be associated	Required
EmailSubject	Email subject	Not Required
InviteUri	Uri with the invitation details	Not Required
FromEmail	From Email to send the mail	Not Required
FromMessage	Message to be sent	Not Required
InviteUserMetaData	User metadata of user	Not Required
MessageBody	Messagebody to be sent as part of email	Not Required

Sample Request

```
{
  "email_address": "invitedEmailAddress",
  "role": "admin"
}
```

Response Schema

```
{
  "Method": "string",
  "Models": [
    {
      "roles": "string",
      "name": "string",
      "type": "string",
      "userId": "string",
      "tenantId": "string",
      "roleList": [
        "string"
      ],
      "partitionKey": "string",
      "rowKey": "string",
      "timestamp": "2020-11-03T07:08:21.814Z",
      "eTag": "string"
    }
  ]
}
```

Sample Response

```
{
  eTag: "W/\"datetime'2020-10-30T08%3A35%3A46.9315262Z'\""
  name: "invitedEmailAddress"
  partitionKey: "465a5197-f412-4548-9180-d7f3e1331cda"
  roleList: ["admin"]
  roles: ["admin"]
  rowKey: "209d7f77-39aa-4e2a-8e9c-56f04f7633f9"
  tenantId: "209d7f77-39aa-4e2a-8e9c-56f04f7633f9"
  timestamp: "2020-10-30T08:35:46.9315262+00:00"
  type: "Invited"
  userId: "465a5197-f412-4548-9180-d7f3e1331cda"
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Status

Service: Identity Gateway

Operations

OPERATION	DESCRIPTION
Get Status	Gets status of the Service and its dependencies
Ping Status	Provides the health status of the service.



Get Status

API that fetches the status of Identity Gateway Service.

Permissions

N/A

Http Request

GET /auth/v1/status

Request Headers

HEADER	VALUE
Content-Type	application/json

Request Body

N/A

Response Schema

```

{
  "Name": "string",
  "Status": {
    "IsHealthy": true,
    "Message": "string"
  },
  "CurrentTime": "string",
  "StartTime": "string",
  "UpTime": 0,
  "UID": "string",
  "Properties": {
    "authRequired": true,
    "endpoint": "string"
  },
  "Dependencies": {
    "additionalProp1": {
      "IsHealthy": true,
      "Message": "string"
    },
    "additionalProp2": {
      "IsHealthy": true,
      "Message": "string"
    },
    "additionalProp3": {
      "IsHealthy": true,
      "Message": "string"
    }
  },
  "$metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}

```

Response

```

{
  "Name": "Identity Gateway",
  "Status": {
    "IsHealthy": true,
    "Message": "Alive and well!"
  },
  "CurrentTime": "2020-10-29T06:56:26+00:00",
  "StartTime": "2020-10-26T22:59:39+00:00",
  "UpTime": 201407,
  "UID": "WebService.4b725a62-1126-413d-8a53-30371955e6e1",
  "Properties": {
    "authRequired": true,
    "endpoint": "http://+:80"
  },
  "Dependencies": {
    "Table Storage": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    }
  },
  "$metadata": {
    "$type": "Status;0",
    "$uri": "/status"
  }
}

```



Ping Status

API that pings the Identity Gateway Service and responds the status code.

Permissions

N/A

Http Request

GET /auth/v1/status/ping

Request Headers

HEADER	VALUE
Content-Type	application/json

Request Body

N/A

Response

Responds 200 Status code



Config

Config service is used to deal with Packages, Device groups, Configuration types, Solution Settings and User Settings

Within each Serenity Instance an interactive Swagger UI is available at the following path

`https://{platform-url}/config/index.html` For more information, [click here](#).

REST operation groups

The Config service REST API provides operations for working with the following:

OPERATION GROUP	DESCRIPTION
Config Types	Operations to manage Config types
Devicegroup	Manage Device groups
Packages	Manage Packages
Seed	Deals with device simulation and templates
Solution Settings	Manages Solution settings like Logo, theme etc.,
Status	Health Status operations of the service
User Settings	Manage User Settings



Config Types

Service: Config

Operations

OPERATION	DESCRIPTION
Get All Config Types	Fetches all Config types



Get All Config Types

API that fetches all the config types.

Permissions

- ReadAll

Http Request

GET /config/v1/configtypes

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "configTypes": [
    "string"
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Sample Response

```
{
  "Items": [
    "Firmware",
    "Custom - 1"
  ],
  "$metadata": {
    "$type": "DevicePropertyList;1",
    "$url": "/v1/deviceproperties"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>



Device Group

Service: Config

Operations

OPERATION	DESCRIPTION
Get All Device Groups	Fetches all Device groups
Get Device Group	Fetches Device group by ID
Create Device Group	Creates Device group
Update Device Group	Updates Device group
Delete Device Group	Deletes Device group



Get All Device Groups

API that fetches all the Device groups.

Permissions

- ReadAll

Http Request

GET /config/v1/devicegroups

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema


```

{
  "items": [
    {
      "id": "string",
      "displayName": "string",
      "conditions": [
        {
          "key": "string",
          "operator": 0,
          "value": {}
        }
      ],
      "supportedMethods": [
        {
          "method": "string"
        }
      ],
      "telemetryFormat": [
        {
          "key": "string",
          "displayName": {}
        }
      ],
      "isPinned": true,
      "sortOrder": 0,
      "eTag": "string",
      "metadata": {
        "additionalProp1": "string",
        "additionalProp2": "string",
        "additionalProp3": "string"
      }
    }
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}

```

Sample Response

```

{
  "items": [
    {
      "Id": "34b35ac5-837d-4fa4-9ab7-3cdf036a5145",
      "DisplayName": "Default",
      "Conditions": [],
      "SupportedMethods": [],
      "TelemetryFormat": [],
      "IsPinned": false,
      "SortOrder": 0,
      "ETag": "\"3f01ad78-0000-0300-0000-5f902b010000\"",
      "$metadata": {
        "$type": "DeviceGroup;1",
        "$url": "/v1/devicegroups/34b35ac5-837d-4fa4-9ab7-3cdf036a5145"
      }
    },
    {
      "Id": "2f411a20-7632-45f0-bf43-5ae449b8727a",
      "DisplayName": "TestDeviceGroup",
      "Conditions": [
        {
          "Key": "Tags.TestDevice",
          "Operator": "EQ",

```

```

        "Value": "Yes"
    }
},
"SupportedMethods": [],
"TelemetryFormat": [],
"IsPinned": false,
"SortOrder": 0,
"ETag": "\"3f01ae78-0000-0300-0000-5f902b010000\"",
"$metadata": {
    "$type": "DeviceGroup;1",
    "$url": "/v1/devicegroups/2f411a20-7632-45f0-bf43-5ae449b8727a"
}
},
{
    "Id": "2ceeeccf-f775-4ea3-b84e-5ea26b125ab6",
    "DisplayName": "EdgeDeviceGroup",
    "Conditions": [
        {
            "Key": "Tags.EdgeDevice",
            "Operator": "EQ",
            "Value": "Yes"
        }
    ],
    "SupportedMethods": [],
    "TelemetryFormat": [],
    "IsPinned": false,
    "SortOrder": 0,
    "ETag": "\"3f01c078-0000-0300-0000-5f902b010000\"",
    "$metadata": {
        "$type": "DeviceGroup;1",
        "$url": "/v1/devicegroups/2ceeeccf-f775-4ea3-b84e-5ea26b125ab6"
    }
},
{
    "Id": "85402f9f-3de2-4b55-bfd4-f7f3ce229270",
    "DisplayName": "SimulationGroup",
    "Conditions": [
        {
            "Key": "Tags.Org",
            "Operator": "EQ",
            "Value": "GGK"
        }
    ],
    "SupportedMethods": [],
    "TelemetryFormat": [],
    "IsPinned": false,
    "SortOrder": 0,
    "ETag": "\"3f01bd78-0000-0300-0000-5f902b010000\"",
    "$metadata": {
        "$type": "DeviceGroup;1",
        "$url": "/v1/devicegroups/85402f9f-3de2-4b55-bfd4-f7f3ce229270"
    }
}
],
"$metadata": {
    "$type": "DeviceGroupList;1",
    "$url": "/v1/devicegroups"
}
}

```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/csltestab2c.onmicrosoft.com>



Get Device Group

API that fetches a Device group by ID.

Permissions

- ReadAll

Http Request

GET /config/v1/devicegroups/{id}

Query Params

HEADER	VALUE
id	Device Group ID

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "id": "string",
  "displayName": "string",
  "conditions": [
    {
      "key": "string",
      "operator": 0,
      "value": {}
    }
  ],
  "supportedMethods": [
    {
      "method": "string"
    }
  ],
  "telemetryFormat": [
    {
      "key": "string",
      "displayName": {}
    }
  ],
  "isPinned": true,
  "sortOrder": 0,
  "eTag": "string",
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Sample Response

```
{
  "Id": "2f411a20-7632-45f0-bf43-5ae449b8727a",
  "DisplayName": "TestDeviceGroup",
  "Conditions": [
    {
      "Key": "Tags.TestDevice",
      "Operator": "EQ",
      "Value": "Yes"
    }
  ],
  "SupportedMethods": [],
  "TelemetryFormat": [],
  "IsPinned": false,
  "SortOrder": 0,
  "ETag": "\"3f01ae78-0000-0300-0000-5f902b010000\"",
  "$metadata": {
    "$type": "DeviceGroup;1",
    "$url": "/v1/devicegroups/2f411a20-7632-45f0-bf43-5ae449b8727a"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Create Device Group

API that creates a Device Group.

Permissions

- CreateDeviceGroups

Http Request

POST /config/v1/devicegroups

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Schema

```
{
  "id": "string",
  "displayName": "string",
  "conditions": [
    {
      "key": "string",
      "operator": 0,
      "value": {}
    }
  ],
  "supportedMethods": [
    {
      "method": "string"
    }
  ],
  "telemetryFormat": [
    {
      "key": "string",
      "displayName": {}
    }
  ],
  "isPinned": true,
  "sortOrder": 0,
  "eTag": "string",
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Sample Request Body

```

{
  "DisplayName": "New Device Group",
  "Conditions": [
    {
      "key": "Tags.Org",
      "operator": "EQ",
      "value": "Test"
    }
  ],
  "TelemetryFormat": [
    {
      "key": "min-temp",
      "displayName": "Min Temperature"
    }
  ],
  "IsPinned": false,
  "SortOrder": 0,
  "SupportedMethods": [
    {
      "method": "Test Method"
    }
  ]
}

```

Response Schema

```

{
  "id": "string",
  "displayName": "string",
  "conditions": [
    {
      "key": "string",
      "operator": 0,
      "value": {}
    }
  ],
  "supportedMethods": [
    {
      "method": "string"
    }
  ],
  "telemetryFormat": [
    {
      "key": "string",
      "displayName": {}
    }
  ],
  "isPinned": true,
  "sortOrder": 0,
  "eTag": "string",
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}

```

Sample Response

```
{
  "Id": "b50858b6-58a9-44df-a1d1-999f02368999",
  "DisplayName": "New Device Group",
  "Conditions": [
    {
      "Key": "Tags.Org",
      "Operator": "EQ",
      "Value": "Test"
    }
  ],
  "SupportedMethods": [
    {
      "Method": "Test Method"
    }
  ],
  "TelemetryFormat": [
    {
      "Key": "min-temp",
      "DisplayName": "Min Temperature"
    }
  ],
  "IsPinned": false,
  "SortOrder": 0,
  "ETag": "\"12006005-0000-0300-0000-5f9bcc640000\"",
  "$metadata": {
    "$type": "DeviceGroup;1",
    "$url": "/v1/devicegroups/b50858b6-58a9-44df-a1d1-999f02368999"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Update Device Group

API that updates a Device Group.

Permissions

- UpdateDeviceGroups

Http Request

PUT /config/v1/devicegroups/{id}

Query Params

HEADER	VALUE
id	Device Group ID

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Schema

```

{
  "id": "string",
  "displayName": "string",
  "conditions": [
    {
      "key": "string",
      "operator": 0,
      "value": {}
    }
  ],
  "supportedMethods": [
    {
      "method": "string"
    }
  ],
  "telemetryFormat": [
    {
      "key": "string",
      "displayName": {}
    }
  ],
  "isPinned": true,
  "sortOrder": 0,
  "eTag": "string",
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}

```

Sample Request Body

```

{
  "Id": "b50858b6-58a9-44df-a1d1-999f02368999",
  "ETag": "\"12006005-0000-0300-0000-5f9bcc640000\"",
  "DisplayName": "New Device Group",
  "Conditions": [
    {
      "key": "Tags.Org",
      "operator": "EQ",
      "value": "Test MMM"
    }
  ],
  "TelemetryFormat": [
    {
      "key": "min-temp",
      "displayName": "Min Temperature"
    }
  ],
  "IsPinned": false,
  "SortOrder": 0,
  "SupportedMethods": [
    {
      "method": "Test Method"
    }
  ]
}

```

Response Schema

```
{
  "id": "string",
  "displayName": "string",
  "conditions": [
    {
      "key": "string",
      "operator": 0,
      "value": {}
    }
  ],
  "supportedMethods": [
    {
      "method": "string"
    }
  ],
  "telemetryFormat": [
    {
      "key": "string",
      "displayName": {}
    }
  ],
  "isPinned": true,
  "sortOrder": 0,
  "eTag": "string",
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Sample Response

```
{
  "Id": "b50858b6-58a9-44df-a1d1-999f02368999",
  "DisplayName": "New Device Group",
  "Conditions": [
    {
      "Key": "Tags.Org",
      "Operator": "EQ",
      "Value": "Test MMM"
    }
  ],
  "SupportedMethods": [
    {
      "Method": "Test Method"
    }
  ],
  "TelemetryFormat": [
    {
      "Key": "min-temp",
      "DisplayName": "Min Temperature"
    }
  ],
  "IsPinned": false,
  "SortOrder": 0,
  "ETag": "\"1200ba11-0000-0300-0000-5f9bcef80000\"",
  "$metadata": {
    "$type": "DeviceGroup;1",
    "$url": "/v1/devicegroups/b50858b6-58a9-44df-a1d1-999f02368999"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Delete Device Group

API that deletes a Device Group.

Permissions

- DeleteDeviceGroups

Http Request

DELETE /config/v1/devicegroups/{id}

Query Params

HEADER	VALUE
id	Device Group ID

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response

Responds 200 Status code

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Packages

Service: Config

Operations

OPERATION	DESCRIPTION
Get Packages	Fetches all the packages with/without parameters
Get Package	Fetches package by ID
Deactivate Package	Deactivates a package
Activate Package	Reactivates a package
Add Package Tag	Adds tag to a package
Remove Package Tag	Removes tag for a package
Remove All Tags	Removes all tags of a package
Create Package	Creates new package
Delete Package	Deletes a package
Upload Package	Uploads firmware file



Get Packages

API that fetches packages with or without parameters.

Permissions

- ReadAll

Http Request

GET /config/v1/packages

Query Params

HEADER	VALUE
packageType	Package Type
configType	Config Type
tags	List of tags
tagOperator	Tag Operator to filter

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

GET /config/v1/packages?PackageType=EdgeManifest&Tags=devicegroup.*&Tags=devicegroup.34b35ac5-837d-4fa4-9ab7-3cdf036a5145

Response Schema

```
{
  "items": [
    {
      "id": "string",
      "name": "string",
      "packageType": 0,
      "configType": "string",
      "dateCreated": "string",
      "content": "string",
      "tags": [
        "string"
      ],
      "version": "string",
      "createdDate": "string",
      "modifiedDate": "string",
      "createdBy": "string",
      "modifiedBy": "string"
    }
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Sample Response


```
{
  "items": [
    {
      "Id": "a360afd6-dc9b-4941-8de8-53c7b6867bfa",
      "Name": "EdgeSWPackage1.json",
      "PackageType": "EdgeManifest",
      "ConfigType": "",
      "DateCreated": "2020-09-08T11:56:43+00:00",
      "Content": "{\r\n\r\n          \\"id\\": \\"EdgeManifest1\\",\r\n\r\n          \\"content\\": {\r\n\r\n            \\"$edgeAgent\\": {\r\n\r\n              \\"schemaVersion\\": \\"1.0\\",\r\n\r\n              \\"runtime\\": {\r\n\r\n                \\"type\\": \\"docker\\",\r\n\r\n                \\"loggingOptions\\": \\"\\",\r\n\r\n                \\"minDockerVersion\\": \\"v1.25\\",\r\n\r\n                }\r\n\r\n              },\r\n\r\n              \\"systemModules\\": {\r\n\r\n                \\"edgeAgent\\": {\r\n\r\n                  \\"settings\\": {\r\n\r\n                    \\"image\\": \\"mcr.microsoft.com/azureiotedge-agent:1.0\\",\r\n\r\n                    \\"createOptions\\": \\"{}\\",\r\n\r\n                    \\"type\\": \\"docker\\",\r\n\r\n                    \\"image\\": \\"mcr.microsoft.com/azureiotedge-\r\n\r\n                    \\"createOptions\\": \\"{}\\",\r\n\r\n                    \\"status\\": \\"running\\",\r\n\r\n                    \\"restartPolicy\\": \\"always\\",\r\n\r\n                    }\r\n\r\n                  },\r\n\r\n                  \\"modules\\": {\r\n\r\n                    }\r\n\r\n                  },\r\n\r\n                  \\"$edgeHub\\": {\r\n\r\n                    \\"properties.desired\\": {\r\n\r\n                      \\"schemaVersion\\": \\"1.0\\",\r\n\r\n                      \\"routes\\": {\r\n\r\n                        \\"route\\": \\"FROM /messages/* INTO $upstream\\",\r\n\r\n                        },\r\n\r\n                        \\"storeAndForwardConfiguration\\": {\r\n\r\n                          \\"timeToLiveSecs\\": 7200\r\n\r\n                        }\r\n\r\n                      },\r\n\r\n                      \\"targetCondition\\": \\"*\\",\r\n\r\n                      \\"priority\\": 30,\r\n\r\n                      \\"labels\\": {\r\n\r\n                        \\"Name\\": \\"Test\\",\r\n\r\n                        }\r\n\r\n                      \\"createdTimeUtc\\": \\"2018-08-20T18:05:55.482Z\\",\r\n\r\n                      \\"lastUpdatedTimeUtc\\": \\"2018-08-20T18:05:55.482Z\\",\r\n\r\n                      \\"etag\\": null,\r\n\r\n                      \\"metrics\\": {\r\n\r\n                        }\r\n\r\n                      \\"results\\": {},\r\n\r\n                      \\"queries\\": {}},\r\n\r\n                      \\"Tags\\": [\r\n\r\n                        \\"devicegroup.*\",\r\n\r\n                        \\"devicegroup.34b35ac5-837d-4fa4-9ab7-3cdf036a5145"\r\n\r\n                      ],\r\n\r\n                      \\"Version\\": null,\r\n\r\n                      \\"CreateDate\\": "2020-09-08T11:56:43+00:00",\r\n\r\n                      \\"ModifiedDate\\": null,\r\n\r\n                      \\"CreatedBy\\": "Ragavender Basangari CW",\r\n\r\n                      \\"ModifiedBy\\": null\r\n\r\n                    }\r\n\r\n                  },\r\n\r\n                  \\"$metadata\\": {\r\n\r\n                    \\"$type\\": "PackageList;1",\r\n\r\n                    \\"$url\\": "/v1/packages"\r\n\r\n                  }\r\n\r\n                }\r\n\r\n              }\r\n\r\n            }\r\n\r\n          }\r\n\r\n        }"}],
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Deactivate Package

API that deactivates a package

Permissions

- TagPackages

Http Request

PUT /config/v1/packages/{id:required}/tags/reserved.inactive
--

Query Params

HEADER	VALUE
id	Package ID

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

PUT /config/v1/packages/1ea5fc47-adf9-44ff-ba2a-fa33266df559/tags/reserved.inactive

Response Schema

<pre>{ "id": "string", "name": "string", "packageType": 0, "configType": "string", "dateCreated": "string", "content": "string", "tags": ["string"], "version": "string", "createdDate": "string", "modifiedDate": "string", "createdBy": "string", "modifiedBy": "string" }</pre>
--

Sample Response

```
{
  "Id": "1ea5fc47-adf9-44ff-ba2a-fa33266df559",
  "Name": "EdgeSWPackage2",
  "PackageType": "EdgeManifest",
  "ConfigType": "",
  "DateCreated": "2020-09-09T07:04:48+00:00",
  "Content": "{\r\n
    \"id\": \"EdgeManifest1\", \r\n
    \"schemaVersion\": \"1.0\", \r\n
    \"content\": {\r\n
      \"modulesContent\": {\r\n
        \"$edgeAgent\": {\r\n
          \"properties.desired\": {\r\n
            \"runtime\": {\r\n
              \"schemaVersion\": \"2.0\", \r\n
              \"type\": \"docker\", \r\n
              \"loggingOptions\": \"\", \r\n
              \"minDockerVersion\": \"v1.25\", \r\n
              \"systemModules\": {\r\n
                \"edgeAgent\": {\r\n
                  \"type\": \"docker\", \r\n
                  \"settings\": {\r\n
                    \"image\": \"mcr.microsoft.com/azureiotedge-agent:1.0\", \r\n
                    \"createOptions\": \"{}\" \r\n
                  } \r\n
                }, \r\n
                \"type\": \"docker\", \r\n
                \"settings\": {\r\n
                  \"image\": \"mcr.microsoft.com/azureiotedge-hub:1.0\", \r\n
                  \"createOptions\": \"{}\" \r\n
                }, \r\n
                \"status\": \"running\", \r\n
                \"restartPolicy\": \"always\", \r\n
                \"modules\": {\r\n
                  \"$edgeHub\": {\r\n
                    \"properties.desired\": {\r\n
                      \"schemaVersion\": \"2.0\", \r\n
                      \"routes\": {\r\n
                        \"route\": \"FROM /messages/* INTO $upstream\" \r\n
                      }, \r\n
                      \"storeAndForwardConfiguration\": {\r\n
                        \"timeToLiveSecs\": 7200 \r\n
                      }, \r\n
                      \"targetCondition\": \"*\", \r\n
                      \"priority\": 30, \r\n
                      \"labels\": {\r\n
                        \"Name\": \"Test\", \r\n
                        \"createdTimeUtc\": \"2018-08-20T18:05:55.482Z\", \r\n
                        \"lastUpdatedTimeUtc\": \"2018-08-20T18:05:55.482Z\", \r\n
                        \"etag\": null, \r\n
                        \"metrics\": {\r\n
                          \"results\": {} \r\n
                        } \r\n
                      }, \r\n
                      \"queries\": {} \r\n
                    }, \r\n
                    \"Tags\": [
                      \"devicegroup.*\",
                      \"devicegroup.2ceeeccf-f775-4ea3-b84e-5ea26b125ab6\",
                      \"reserved.inactive\"
                    ],
                    \"Version\": null,
                    \"CreatedDate\": \"2020-09-09T07:04:48+00:00\",
                    \"ModifiedDate\": \"2020-11-02T11:39:21+00:00\",
                    \"CreatedBy\": \"Ragavender Basangari CW\",
                    \"ModifiedBy\": \"Sahithi Voruganti CW\"
                  }
                }
              }
            }
          }
        }
      }
    }
  },
  \"Version\": null,
  \"CreatedDate\": \"2020-09-09T07:04:48+00:00\",
  \"ModifiedDate\": \"2020-11-02T11:39:21+00:00\",
  \"CreatedBy\": \"Ragavender Basangari CW\",
  \"ModifiedBy\": \"Sahithi Voruganti CW\"
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/csltestab2c.onmicrosoft.com>



Activate Package

API that activates a package

Permissions

- TagPackages

Http Request

DELETE /config/v1/packages/{id:required}/tags/reserved.inactive

Query Params

HEADER	VALUE
id	Package ID

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

DELETE /config/v1/packages/1ea5fc47-adf9-44ff-ba2a-fa33266df559/tags/reserved.inactive
--

Response Schema

<pre>{ "id": "string", "name": "string", "packageType": 0, "configType": "string", "dateCreated": "string", "content": "string", "tags": ["string"], "version": "string", "createdDate": "string", "modifiedDate": "string", "createdBy": "string", "modifiedBy": "string" }</pre>
--

Sample Response

[illegible]

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Add Package Tag

API that adds tag to a package

Permissions

- TagPackages

Http Request

PUT /config/v1/packages/{id:required}/tags/{tag:required:regex(^(!reserved\\.)([a-zA-Z0-9\\-\\.]+)\$)}
--

Query Params

HEADER	VALUE
id	Package ID
tag	tag to be added

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

<pre>{ "id": "string", "name": "string", "packageType": 0, "configType": "string", "dateCreated": "string", "content": "string", "tags": ["string"], "version": "string", "createdDate": "string", "modifiedDate": "string", "createdBy": "string", "modifiedBy": "string" }</pre>
--

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Examples

Example-1

Sample Request

```
PUT /config/v1/packages/1ea5fc47-adf9-44ff-ba2a-fa33266df559/tags/test
```

Sample Response

```
{
  "Id": "1ea5fc47-adf9-44ff-ba2a-fa33266df559",
  "Name": "EdgeSWPackage2",
  "PackageType": "EdgeManifest",
  "ConfigType": "",
  "DateCreated": "2020-09-09T07:04:48+00:00",
  "Content": "{\r\n
    \"id\": \"EdgeManifest1\", \r\n
    \"schemaVersion\": \"1.0\", \r\n
    \"content\": {\r\n
      \"modulesContent\": {\r\n
        \"$edgeAgent\": {\r\n
          \"properties.desired\": {\r\n
            \"schemaVersion\": \"2.0\", \r\n
            \"runtime\": {\r\n
              \"type\": \"docker\", \r\n
              \"settings\": {\r\n
                \"loggingOptions\": \"\", \r\n
                \"minDockerVersion\": \"v1.25\" \r\n
              } \r\n
            }, \r\n
            \"edgeAgent\": {\r\n
              \"type\": \"docker\", \r\n
              \"settings\": {\r\n
                \"image\": \"mcr.microsoft.com/azureiotedge-agent:1.0\", \r\n
                \"createOptions\": \"{}\" \r\n
              } \r\n
            }, \r\n
            \"type\": \"docker\", \r\n
            \"settings\": {\r\n
              \"image\": \"mcr.microsoft.com/azureiotedge-hub:1.0\", \r\n
              \"createOptions\": \"{}\" \r\n
            }, \r\n
            \"status\": \"running\", \r\n
            \"restartPolicy\": \"always\" \r\n
          } \r\n
        }, \r\n
        \"$edgeHub\": {\r\n
          \"properties.desired\": {\r\n
            \"schemaVersion\": \"2.0\", \r\n
            \"routes\": {\r\n
              \"route\": \"FROM /messages/* INTO $upstream\" \r\n
            }, \r\n
            \"storeAndForwardConfiguration\": {\r\n
              \"timeToLiveSecs\": 7200 \r\n
            } \r\n
          }, \r\n
          \"targetCondition\": \"*\", \r\n
          \"priority\": 30, \r\n
          \"labels\": {\r\n
            \"Name\": \"Test\" \r\n
          }, \r\n
          \"createdTimeUtc\": \"2018-08-20T18:05:55.482Z\", \r\n
          \"lastUpdatedTimeUtc\": \"2018-08-20T18:05:55.482Z\", \r\n
          \"metrics\": {\r\n
            \"results\": {}, \r\n
            \"queries\": {} \r\n
          }, \r\n
          \"Tags\": [
            \"devicegroup.*\",
            \"devicegroup.2ceeeccf-f775-4ea3-b84e-5ea26b125ab6\",
            \"test\",
          ],
          \"Version\": null,
          \"CreatedDate\": \"2020-09-09T07:04:48+00:00\",
          \"ModifiedDate\": \"2020-11-02T12:45:57+00:00\",
          \"CreatedBy\": \"Ragavender Basangari CW\",
          \"ModifiedBy\": \"Sahithi Voruganti CW\"
        }
      }
    }
  }
}
```

Example-2

Sample Request

```
PUT /config/v1/packages/1ea5fc47-adf9-44ff-ba2a-fa33266df559/tags//test.1
```

Sample Response

```

{
  "Id": "1ea5fc47-adf9-44ff-ba2a-fa33266df559",
  "Name": "EdgeSWPackage2",
  "PackageType": "EdgeManifest",
  "ConfigType": "",
  "DateCreated": "2020-09-09T07:04:48+00:00",
  "Content": "{\r\n
    \"id\": \"EdgeManifest1\", \r\n
    \"schemaVersion\": \"1.0\", \r\n
    \"content\": {\r\n
      \"$edgeAgent\": {\r\n
        \"properties.desired\": {\r\n
          \"schemaVersion\": \"2.0\", \r\n
          \"runtime\": {\r\n
            \"type\": \"docker\", \r\n
            \"settings\": {\r\n
              \"loggingOptions\": \"\", \r\n
              \"minDockerVersion\": \"v1.25\" \r\n
            }, \r\n
            \"systemModules\": {\r\n
              \"edgeAgent\": {\r\n
                \"type\": \"docker\", \r\n
                \"settings\": {\r\n
                  \"image\": \"mcr.microsoft.com/azureiotedge-agent:1.0\", \r\n
                  \"createOptions\": \"{}\" \r\n
                }, \r\n
                \"edgeHub\": {\r\n
                  \"type\": \"docker\", \r\n
                  \"settings\": {\r\n
                    \"image\": \"mcr.microsoft.com/azureiotedge-hub:1.0\", \r\n
                    \"createOptions\": \"{}\" \r\n
                  }, \r\n
                  \"status\": \"running\", \r\n
                  \"restartPolicy\": \"always\" \r\n
                }, \r\n
                \"modules\": {\r\n
                  \"$edgeHub\": {\r\n
                    \"schemaVersion\": \"2.0\", \r\n
                    \"route\": \"FROM /messages/* INTO $upstream\" \r\n
                  }, \r\n
                  \"storeAndForwardConfiguration\": {\r\n
                    \"timeToLiveSecs\": 7200 \r\n
                  }, \r\n
                  \"targetCondition\": \"*\", \r\n
                  \"priority\": 30, \r\n
                  \"labels\": {\r\n
                    \"Name\": \"Test\" \r\n
                  }, \r\n
                  \"createdTimeUtc\": \"2018-08-20T18:05:55.482Z\", \r\n
                  \"lastUpdatedTimeUtc\": \"2018-08-20T18:05:55.482Z\", \r\n
                  \"etags\": null, \r\n
                  \"metrics\": {\r\n
                    \"queries\": {} \r\n
                  }, \r\n
                  \"results\": {} \r\n
                }, \r\n
                \"Tags\": [
                  \"devicegroup.*\",
                  \"devicegroup.2ceeeccf-f775-4ea3-b84e-5ea26b125ab6\",
                  \"test\",
                  \"test.1\"
                ],
                \"Version\": null,
                \"CreatedDate\": \"2020-09-09T07:04:48+00:00\",
                \"ModifiedDate\": \"2020-11-02T12:45:57+00:00\",
                \"CreatedBy\": \"Ragavender Basangari CW\",
                \"ModifiedBy\": \"Sahithi Voruganti CW\"
              }
            }
          }
        }
      }
    }
  }
}

```




Remove Package Tag

API that removes specified tag of a package

Permissions

- TagPackages

Http Request

DELETE /config/v1/packages/{id:required}/tags/{tag:required:regex(^(?!reserved\\.\\.)[[a-zA-Z0-9\\.]]+\$)}
--

Query Params

HEADER	VALUE
id	Package ID
tag	tag to remove from package

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Sample Request

DELETE /config/v1/packages/1ea5fc47-adf9-44ff-ba2a-fa33266df559/tags//test.1
--

Response Schema

<pre>{ "id": "string", "name": "string", "packageType": 0, "configType": "string", "dateCreated": "string", "content": "string", "tags": ["string"], "version": "string", "createdDate": "string", "modifiedDate": "string", "createdBy": "string", "modifiedBy": "string" }</pre>
--

Sample Response

```
{
  "Id": "1ea5fc47-adf9-44ff-ba2a-fa33266df559",
  "Name": "EdgeSWPackage2",
  "PackageType": "EdgeManifest",
  "ConfigType": "",
  "DateCreated": "2020-09-09T07:04:48+00:00",
  "Content": "{\r\n
    \"id\": \"EdgeManifest1\", \r\n
    \"schemaVersion\": \"1.0\", \r\n
    \"content\": {\r\n
      \"modulesContent\": {\r\n
        \"$edgeAgent\": {\r\n
          \"properties.desired\": {\r\n
            \"schemaVersion\": \"2.0\", \r\n
            \"runtime\": {\r\n
              \"type\": \"docker\", \r\n
              \"settings\": {\r\n
                \"loggingOptions\": \"\", \r\n
                \"minDockerVersion\": \"v1.25\", \r\n
                \"systemModules\": {\r\n
                  \"edgeAgent\": {\r\n
                    \"type\": \"docker\", \r\n
                    \"settings\": {\r\n
                      \"image\": \"mcr.microsoft.com/azureiotedge-agent:1.0\", \r\n
                      \"createOptions\": \"{}\" \r\n
                    } \r\n
                  }, \r\n
                  \"edgeHub\": {\r\n
                    \"type\": \"docker\", \r\n
                    \"settings\": {\r\n
                      \"image\": \"mcr.microsoft.com/azureiotedge-hub:1.0\", \r\n
                      \"createOptions\": \"{}\" \r\n
                    } \r\n
                  }, \r\n
                  \"$edgeHub\": {\r\n
                    \"properties.desired\": {\r\n
                      \"schemaVersion\": \"2.0\", \r\n
                      \"routes\": {\r\n
                        \"route\": \"FROM /messages/* INTO $upstream\" \r\n
                      }, \r\n
                      \"storeAndForwardConfiguration\": {\r\n
                        \"timeToLiveSecs\": 7200 \r\n
                      }, \r\n
                      \"targetCondition\": \"*\" \r\n
                    }, \r\n
                    \"priority\": 30, \r\n
                    \"labels\": {\r\n
                      \"Name\": \"Test\" \r\n
                    }, \r\n
                    \"createdTimeUtc\": \"2018-08-20T18:05:55.482Z\", \r\n
                    \"lastUpdatedTimeUtc\": \"2018-08-20T18:05:55.482Z\", \r\n
                    \"etag\": null, \r\n
                    \"metrics\": {\r\n
                      \"queries\": {} \r\n
                    }, \r\n
                    \"results\": {} \r\n
                  }, \r\n
                  \"tags\": [
                    \"devicegroup.*\",
                    \"devicegroup.2ceeeccf-f775-4ea3-b84e-5ea26b125ab6\",
                    \"test\"
                  ],
                  \"Version\": null,
                  \"CreatedDate\": \"2020-09-09T07:04:48+00:00\",
                  \"ModifiedDate\": \"2020-11-02T12:54:08+00:00\",
                  \"CreatedBy\": \"Ragavender Basangari CW\",
                  \"ModifiedBy\": \"Sahithi Voruganti CW\"
                } \r\n
              } \r\n
            } \r\n
          } \r\n
        } \r\n
      } \r\n
    } \r\n
  } \r\n
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/csltestab2c.onmicrosoft.com>



Remove All Tags

API that removes all the tags of a Package.

Permissions

- TagPackages

Http Request

DELETE /config/v1/packages/tags

Query Params

HEADER	VALUE
id	Package ID

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "id": "string",
  "name": "string",
  "packageType": 0,
  "configType": "string",
  "dateCreated": "string",
  "content": "string",
  "tags": [
    "string"
  ],
  "version": "string",
  "createdDate": "string",
  "modifiedDate": "string",
  "createdBy": "string",
  "modifiedBy": "string"
}
```

Sample Response



Create Package

API that create new package.

Permissions

- CreatePackages

Http Request

POST /config/v1/packages

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.

Request Body

FormData:

HEADER	VALUE
packageName	Name of the package(firmware file)
packageType	Type of the package
version	version number
configType	Configuration type of the package
tags	list of tags
package	package/firmware file

Sample Firmware JSON

```
{
  "id": "test_json-faa8cd85-fc81-4b93-804d-d99e8150807a",
  "content": {
    "deviceContent": {
      "properties.desired.softwareConfig": {
        "softwareName": "Firmware",
        "version": "1.0.0",
        "softwareURL": "https://test.blob.core.windows.net/233a1ca2-6855-43c5-8b9c-c7f85a1dd520-software-package/test.json?sv=2018-03-28&sr=b&sig=6u2TdIPhEMKOlBWNQBekUSavqLXMJw7ilm2xVIrwlYc%3D&st=2020-06-02T07%3A21%3A11Z&se=2020-06-03T07%3A26%3A11Z&sp=rw",
        "fileName": "test.json",
        "serialNumber": "",
        "checksum": "da39a3ee5e6b4b0d3255bfef95601890afd80709"
      }
    }
  },
  "metrics": {
    "queries": {
      "current": "SELECT deviceId FROM devices WHERE configurations.[[{}]].status = \'Applied\' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status=\'Success\'",
      "applying": "SELECT deviceId FROM devices WHERE configurations.[[{}]].status = \'Applied\' AND ( properties.reported.softwareConfig.status=\'Downloading\' OR properties.reported.softwareConfig.status=\'Verifying\' OR properties.reported.softwareConfig.status=\'Applying\')",
      "rebooting": "SELECT deviceId FROM devices WHERE configurations.[[{}]].status = \'Applied\' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status=\'Rebooting\'",
      "error": "SELECT deviceId FROM devices WHERE configurations.[[{}]].status = \'Applied\' AND properties.reported.softwareConfig.status=\'Error\'",
      "rolledback": "SELECT deviceId FROM devices WHERE configurations.[[{}]].status = \'Applied\' AND properties.reported.softwareConfig.status=\'RolledBack\'"
    }
  },
  "targetCondition": "",
  "priority": 20
}
```

Response Schema

```
{
  "id": "string",
  "name": "string",
  "packageType": 0,
  "configType": "string",
  "dateCreated": "string",
  "content": "string",
  "tags": [
    "string"
  ],
  "version": "string",
  "createdDate": "string",
  "modifiedDate": "string",
  "createdBy": "string",
  "modifiedBy": "string"
}
```

Sample Response

```
{
  "Id": "c904ce3a-11ab-422a-9133-dc7388f4352d",
  "Name": "SampleFirmware",
  "PackageType": "DeviceConfiguration",
  "ConfigType": "Firmware",
  "DateCreated": "2020-11-02T13:05:39+00:00",
  "Content": "{ \"content\": { \"deviceContent\": { \"properties.desired.softwareConfig\": {
{ \"softwareName\": \"Firmware\", \"version\": \"1.0.0\", \"softwareURL\": \"https://crsliotstorageacctdev.blob.cor
e.windows.net/209d7f79-39aa-4e2a-8e9c-56f04f7633f9-software-package/SampleFirmware?sv=2018-03-
28&sr=b&sig=QSYcu7644aj0ugXFXXDULZvDRC1pGzouU0KPe%2Bzb6Xw%3D&st=2020-11-02T13%3A00%3A24Z&se=2020-11-
03T13%3A05%3A24Z&sp=rw\", \"fileName\": \"SampleFirmware\", \"serialNumber\": \"\", \"checksum\": \"8c80a7921ba3245
8c12f098917dd73b5dfe4ded5\" } } }, \"metrics\": { \"queries\": { \"current\": \"SELECT deviceId FROM devices WHERE
configurations.[[ ${deployment.id} ]].status = 'Applied' AND properties.reported.softwareConfig.version =
properties.desired.softwareConfig.version AND
properties.reported.softwareConfig.status='Success'\", \"applying\": \"SELECT deviceId FROM devices WHERE
configurations.[[ ${deployment.id} ]].status = 'Applied' AND (
properties.reported.softwareConfig.status='Downloading' OR
properties.reported.softwareConfig.status='Verifying' OR
properties.reported.softwareConfig.status='Applying')\", \"rebooting\": \"SELECT deviceId FROM devices WHERE
configurations.[[ ${deployment.id} ]].status = 'Applied' AND properties.reported.softwareConfig.version =
properties.desired.softwareConfig.version AND
properties.reported.softwareConfig.status='Rebooting'\", \"error\": \"SELECT deviceId FROM devices WHERE
configurations.[[ ${deployment.id} ]].status = 'Applied' AND
properties.reported.softwareConfig.status='Error'\", \"rolledback\": \"SELECT deviceId FROM devices WHERE
configurations.[[ ${deployment.id} ]].status = 'Applied' AND
properties.reported.softwareConfig.status='RolledBack'\" } } }, \"targetCondition\": \"\", \"priority\": 20, \"id\": \"
samplefirmware-2e64f059-a486-4a6d-824d-926886cd5736\" } }\",
  \"Tags\": [
    \"devicegroup.*\",
    \"devicegroup.34b35ac5-837d-4fa4-9ab7-3cdf036a5145\"
  ],
  \"Version\": \"1.0.0\",
  \"CreatedDate\": \"2020-11-02T13:05:39+00:00\",
  \"ModifiedDate\": null,
  \"CreatedBy\": \"Sahithi Voruganti CW\",
  \"ModifiedBy\": null
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Delete Package

API that deletes a Package.

Permissions

- DeletePackages

Http Request

DELETE /config/v1/packages/{id}

Query Params

HEADER	VALUE
id	Package ID

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response

Responds 200 Status code

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>



Upload Package

API that uploads package firmware.

Permissions

- CreatePackages

Http Request

POST /config/v1/packages/UploadFile

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.

Other Attributes

HEADER	VALUE
RequestSizeLimit	200000000

Request Body

FormData: JSON file

HEADER	VALUE
uploadedFile	{file}

Sample Firmware JSON

```
{
  "id": "test_json-faa8cd85-fc81-4b93-804d-d99e8150807a",
  "content": {
    "deviceContent": {
      "properties.desired.softwareConfig": {
        "softwareName": "Firmware",
        "version": "1.0.0",
        "softwareURL": "https://test.blob.core.windows.net/233a1ca2-6855-43c5-8b9c-c7f85a1dd520-software-package/test.json?sv=2018-03-28&sr=b&sig=6u2TdIPhEMKOlBWNQBekUSavqLXMJw7ilm2xVIrwlYc%3D&st=2020-06-02T07%3A21%3A11Z&se=2020-06-03T07%3A26%3A11Z&sp=rw",
        "fileName": "test.json",
        "serialNumber": "",
        "checksum": "da39a3ee5e6b4b0d3255bfef95601890afd80709"
      }
    }
  },
  "metrics": {
    "queries": {
      "current": "SELECT deviceId FROM devices WHERE configurations.[[{}]].status = \'Applied\' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status=\'Success\'",
      "applying": "SELECT deviceId FROM devices WHERE configurations.[[{}]].status = \'Applied\' AND ( properties.reported.softwareConfig.status=\'Downloading\' OR properties.reported.softwareConfig.status=\'Verifying\' OR properties.reported.softwareConfig.status=\'Applying\')",
      "rebooting": "SELECT deviceId FROM devices WHERE configurations.[[{}]].status = \'Applied\' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status=\'Rebooting\'",
      "error": "SELECT deviceId FROM devices WHERE configurations.[[{}]].status = \'Applied\' AND properties.reported.softwareConfig.status=\'Error\'",
      "rolledback": "SELECT deviceId FROM devices WHERE configurations.[[{}]].status = \'Applied\' AND properties.reported.softwareConfig.status=\'RolledBack\'"
    }
  },
  "targetCondition": "",
  "priority": 20
}
```

Response Schema

```
{
  "softwarePackageURL": "string",
  "checksum": {
    "md5": "string",
    "sha1": "string"
  }
}
```

Sample Response

```
{
  "SoftwarePackageURL": "https://crsliotstorageacctdev.blob.core.windows.net/209d7f79-39aa-4e2a-8e9c-56f04f7633f9-software-package/SW2Package.json?sv=2018-03-28&sr=b&sig=jUBMtr%2B82Ja4wCytdn3t%2BPyemnaIaKW%2FKEfYmdafHrU%3D&st=2020-11-02T12%3A17%3A52Z&se=2020-11-03T12%3A22%3A52Z&sp=rw",
  "Checksum": {
    "MD5": "jdQF+qyJDC3u/me6j7Ywwg==",
    "SHA1": "FrVXy3tIKM7+cbmp/a21NL30YIk="
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Seed

Service: Config

Operations

OPERATION	DESCRIPTION
Seed	Seeds single template for Device Simulation solution or Remote Monitoring solution



Seed

API that seeds single template for Device Simulation solution or Remote Monitoring solution

Permissions

ReallAll

Http Request

POST /config/v1/seed

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response

Responds 200 Status code

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Solution Settings

Service: Config

Operations

OPERATION	DESCRIPTION
Get Theme	Fetches the theme of the solution
Set Theme	Sets the theme of the solution
Get Logo	Fetches the logo of the solution
Set Logo	Sets the logo of the solution
Get Actions Settings	Fetches the action settings
Get Default Firmware Setting	Fetches the default firmware
Set Default Firmware Setting	Updates the default firmware



Get Theme

API that fetches the theme of the solution.

Permissions

- ReadAll

Http Request

GET /config/v1/solution-settings/theme
--

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

<pre>{ "name": "string", "description": "string", "azureMapsKey": "string" }</pre>
--

Sample Response

<pre>{ "name": "My Solution", "description": "My Solution Description", "azureMapsKey": "qgZ70Qi8XryD6py8L-ZId8DNuaWtCbdrQ996mY3aQl8" }</pre>

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Set Theme

API that sets the theme of the solution.

Permissions

- ReadAll

Http Request

PUT /config/v1/solution-settings/theme
--

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Schema

<pre>{ "name": "string", "description": "string", "azureMapsKey": "string" }</pre>
--

Sample Request Body

<pre>{ "name": "My Solution", "description": "My Solution Description", "azureMapsKey": "qgZ70Qi8XryD6py8L-ZId8DNuaWtCbdrQ996mY3aQ18" }</pre>

Response Schema

<pre>{ "name": "string", "description": "string", "azureMapsKey": "string" }</pre>
--

Sample Response

<pre>{ "name": "My Solution", "description": "My Solution Description", "azureMapsKey": "qgZ70Qi8XryD6py8L-ZId8DNuaWtCbdrQ996mY3aQ18" }</pre>

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Get Logo

API that fetches the logo of the solution.

Permissions

- ReadAll

Http Request

GET /config/v1/solution-settings/logo

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	image/svg+xml or image/png or image/jpeg

Request Body

N/A

Response Headers

HEADER	VALUE
Content-Type	image/svg+xml or image/png or image/jpeg
Name	{Name}
IsDefault	true/false
Access-Control-Expose-Headers	Name,IsDefault

Sample Response Body

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<svg
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:cc="http://creativecommons.org/ns#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:svg="http://www.w3.org/2000/svg"
  xmlns="http://www.w3.org/2000/svg"
  version="1.1"
  id="svg3400"
  viewBox="0 0 300 157.69046"
  height="157.69046"
  width="300">
  <defs
    id="defs3402">
    <clipPath
      id="clipPath3350"
      clipPathUnits="userSpaceOnUse">
      <path
        id="path3352"
        d="M 0,0 603,0 603,783 0,783 0,0 Z" />
      </clipPath>
    </defs>
    <metadata
      id="metadata3405">
      <rdf:RDF>
        <cc:Work
          rdf:about="">
          <dc:format>image/svg+xml</dc:format>
          <dc:type
            rdf:resource="http://purl.org/dc/dcmitype/StillImage" />
          <dc:title></dc:title>
        </cc:Work>
      </rdf:RDF>
    </metadata>
    <g
      transform="translate(-322.94143,-762.82546)"
      id="layer1">
      <g
        id="g3346"
        transform="matrix(7.5619164,0,0,-7.5619164,48.401073,1766.4504)">
        <g
          clip-path="url(#clipPath3350)"
          id="g3348">
          <g
            transform="translate(67.5289,132.1326)"
            id="g3354">
            <path
              id="path3356"
              style="fill:#ee1b2d;fill-opacity:1;fill-rule:nonzero;stroke:none"
              d="M 0,0 -2.83,-11.512 -5.668,0 1 -8.197,0 0,-4.251 c -0.996,3.72 -4.65,4.653 -
7.915,4.706 -3.981,0.052 -8.392,-1.673 -8.545,-6.937 1 5.506,0 c 0,1.589 1.455,2.499 2.829,2.476 1.687,0.014
2.463,-0.706 2.502,-1.827 -0.058,-0.973 -0.632,-1.65 -2.488,-1.65 1 -1.852,0 0,-3.82 1.681,0 c 0.955,0
2.284,-0.52 2.336,-1.88 0.064,-1.621 -1.063,-2.333 -2.45,-2.347 -2.476,0.092 -3.115,1.994 -3.115,3.63 1 -
5.715,0 c 0.024,-1.102 -0.012,-8.285 8.945,-8.232 4.291,-0.039 7.414,1.765 8.295,4.252 1 0,-3.812 5.512,0
0,12.42 3.048,-12.42 4.925,0 3.059,12.406 0,-12.417 5.624,0 8.317,0 0,0 Z m -13.847,-11.485 c -0.702,1.452
-1.69,2.087 -2.246,2.288 1.167,0.519 1.778,1.223 2.246,2.626 1 0,-4.914 z" />
            </g>
          </g>
        </g>
      </g>
    </svg>

```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Set Logo

API that sets the logo and name of the solution.

Permissions

- ReadAll

Http Request

PUT /config/v1/solution-settings/logo

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	image/svg+xml or image/png or image/jpeg
Name	{Name}

Request Body

Binary: SVG/PNG/JPEG/JPG

Response Headers

HEADER	VALUE
Content-Type	image/svg+xml or image/png or image/jpeg
Name	{Name}
IsDefault	true/false
Access-Control-Expose-Headers	Name,IsDefault

Sample Response

```

<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<svg
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:cc="http://creativecommons.org/ns#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:svg="http://www.w3.org/2000/svg"
  xmlns="http://www.w3.org/2000/svg"
  version="1.1"
  id="svg3400"
  viewBox="0 0 300 157.69046"
  height="157.69046"
  width="300">
  <defs
    id="defs3402">
    <clipPath
      id="clipPath3350"
      clipPathUnits="userSpaceOnUse">
      <path
        id="path3352"
        d="M 0,0 603,0 603,783 0,783 0,0 Z" />
      </clipPath>
    </defs>
    <metadata
      id="metadata3405">
      <rdf:RDF>
        <cc:Work
          rdf:about="">
          <dc:format>image/svg+xml</dc:format>
          <dc:type
            rdf:resource="http://purl.org/dc/dcmitype/StillImage" />
          <dc:title></dc:title>
        </cc:Work>
      </rdf:RDF>
    </metadata>
    <g
      transform="translate(-322.94143,-762.82546)"
      id="layer1">
      <g
        id="g3346"
        transform="matrix(7.5619164,0,0,-7.5619164,48.401073,1766.4504)">
        <g
          clip-path="url(#clipPath3350)"
          id="g3348">
          <g
            transform="translate(67.5289,132.1326)"
            id="g3354">
            <path
              id="path3356"
              style="fill:#ee1b2d;fill-opacity:1;fill-rule:nonzero;stroke:none"
              d="M 0,0 -2.83,-11.512 -5.668,0 1 -8.197,0 0,-4.251 c -0.996,3.72 -4.65,4.653 -
7.915,4.706 -3.981,0.052 -8.392,-1.673 -8.545,-6.937 1 5.506,0 c 0,1.589 1.455,2.499 2.829,2.476 1.687,0.014
2.463,-0.706 2.502,-1.827 -0.058,-0.973 -0.632,-1.65 -2.488,-1.65 1 -1.852,0 0,-3.82 1.681,0 c 0.955,0
2.284,-0.52 2.336,-1.88 0.064,-1.621 -1.063,-2.333 -2.45,-2.347 -2.476,0.092 -3.115,1.994 -3.115,3.63 1 -
5.715,0 c 0.024,-1.102 -0.012,-8.285 8.945,-8.232 4.291,-0.039 7.414,1.765 8.295,4.252 1 0,-3.812 5.512,0
0,12.42 3.048,-12.42 4.925,0 3.059,12.406 0,-12.417 5.624,0 8.317,0 0,0 Z m -13.847,-11.485 c -0.702,1.452
-1.69,2.087 -2.246,2.288 1.167,0.519 1.778,1.223 2.246,2.626 1 0,-4.914 z" />
            </g>
          </g>
        </g>
      </g>
    </svg>

```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

A



Get Action Settings

API that fetches the action settings.

Http Request

GET /config/v1/solution-settings/actions

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "items": [
    {
      "type": "string",
      "settings": {
        "additionalProp1": {},
        "additionalProp2": {},
        "additionalProp3": {}
      }
    }
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Get Default Firmware Setting

API that fetches the default firmware settings.

Permissions

- ReadAll

Http Request

GET /config/v1/solution-settings/defaultFirmware

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "jsObject": {},
  "metadata": {
    "version": "string"
  }
}
```

Sample Response


```

{
  "jsObject": {
    "content": {
      "deviceContent": {
        "properties.desired.softwareConfig": {
          "softwareName": "Firmware",
          "version": "${version}",
          "softwareURL": "${blobData.FileUri}",
          "fileName": "${packageFile.name}",
          "serialNumber": "",
          "checksum": "${blobData.CheckSum}"
        }
      }
    },
    "metrics": {
      "queries": {
        "current": "SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied'
AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND
properties.reported.softwareConfig.status='Success'",
        "applying": "SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status =
'Applied' AND ( properties.reported.softwareConfig.status='Downloading' OR
properties.reported.softwareConfig.status='Verifying' OR
properties.reported.softwareConfig.status='Applying')",
        "rebooting": "SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status =
'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND
properties.reported.softwareConfig.status='Rebooting'",
        "error": "SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied'
AND properties.reported.softwareConfig.status='Error'",
        "rolledback": "SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status =
'Applied' AND properties.reported.softwareConfig.status='RolledBack'"
      }
    },
    "targetCondition": "",
    "priority": 20
  },
  "metadata": {
    "version": "content//deviceContent//properties.desired.softwareConfig//version"
  }
}

```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Set Default Firmware Setting

API that updates the default firmware settings.

Permissions

- CreatePackages

Http Request

POST /config/v1/solution-settings/defaultFirmware

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Schema

```
{
  "jsObject": {},
  "metadata": {
    "version": "string"
  }
}
```

Sample Request Body

```

{
  "jsObject": {
    "content": {
      "deviceContent": {
        "properties.desired.softwareConfig": {
          "softwareName": "Firmware",
          "version": "${version}",
          "softwareURL": "${blobData.FileUri}",
          "fileName": "${packageFile.name}",
          "serialNumber": "",
          "checksum": "${blobData.CheckSum}"
        }
      }
    },
    "metrics": {
      "queries": {
        "current": "SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied'
AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND
properties.reported.softwareConfig.status='Success'",
        "applying": "SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status =
'Applied' AND ( properties.reported.softwareConfig.status='Downloading' OR
properties.reported.softwareConfig.status='Verifying' OR
properties.reported.softwareConfig.status='Applying')",
        "rebooting": "SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status =
'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND
properties.reported.softwareConfig.status='Rebooting'",
        "error": "SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied'
AND properties.reported.softwareConfig.status='Error'",
        "rolledback": "SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status =
'Applied' AND properties.reported.softwareConfig.status='RolledBack'"
      }
    },
    "targetCondition": "",
    "priority": 20
  },
  "metadata": {
    "version": "content//deviceContent//properties.desired.softwareConfig//version"
  }
}

```

Response Schema

```

{
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "key": "string",
  "data": "string",
  "eTag": "string"
}

```

Sample Response

```
{
  "$metadata": {
    "$modified": "11/02/2020 14:07:39 +00:00",
    "$uri": "/v1/collections/solution-settings/values/defaultFirmware"
  },
  "Key": "defaultFirmware",
  "Data": "{\n\"JsonObject\":{\n\"content\":{\n\"deviceContent\":{\n\"properties.desired.softwareConfig\":{\n\"softwareName\":\n\"Firmware\", \n\"version\":\n\"${version}\", \n\"softwareURL\":\n\"${blobData.FileUri}\", \n\"fileName\":\n\"${packageFile.name}\", \n\"serialNumber\":\n\"\", \n\"checksum\":\n\"${blobData.CheckSum}\", \n\"metrics\":{\n\"queries\":{\n\"current\":\n\"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status='Success'\", \n\"applying\":\n\"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND ( properties.reported.softwareConfig.status='Downloading' OR properties.reported.softwareConfig.status='Verifying' OR properties.reported.softwareConfig.status='Applying')\", \n\"rebooting\":\n\"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status='Rebooting'\", \n\"error\":\n\"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.status='Error'\", \n\"rolledback\":\n\"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.status='RolledBack'\", \n\"targetCondition\":\n\"\", \n\"priority\":20}, \n\"Metadata\":{\n\"Version\":\n\"content//deviceContent//properties.desired.softwareConfig//version\"}}}, \n\"ETag\": \n\"010050d8-0000-0300-0000-5fa012ab0000\""}\n}"
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Status

Service: Config

Operations

OPERATION	DESCRIPTION
Get Status	Gets status of the Service and its dependencies
Ping Status	Provides the health status of the service.



Get Status

API that fetches the status of Config Service.

Permissions

N/A

Http Request

GET /config/v1/status

Request Headers

HEADER	VALUE
Content-Type	application/json

Request Body

N/A

Response Schema

```
{
  "name": "string",
  "status": {
    "isHealthy": true,
    "message": "string"
  },
  "currentTime": "string",
  "startTime": "string",
  "upTime": 0,
  "uid": "string",
  "properties": {
    "authRequired": true,
    "endpoint": "string"
  },
  "dependencies": {
    "additionalProp1": {
      "isHealthy": true,
      "message": "string"
    },
    "additionalProp2": {
      "isHealthy": true,
      "message": "string"
    },
    "additionalProp3": {
      "isHealthy": true,
      "message": "string"
    }
  },
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Sample Response

```
{
  "Name": "Config",
  "Status": {
    "IsHealthy": true,
    "Message": "Alive and well!"
  },
  "CurrentTime": "2020-10-29T10:00:57+00:00",
  "StartTime": "2020-10-27T16:19:42+00:00",
  "UpTime": 150075,
  "UID": "WebService.d1d03c23-0548-42b8-9b58-cfe2ba2843e2",
  "Properties": {
    "authRequired": true,
    "endpoint": "http://+:80"
  },
  "Dependencies": {
    "Storage Adapter": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "Device Telemetry": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "Asa Manager": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    }
  },
  "$metadata": {
    "$type": "Status;0",
    "$uri": "/status"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>



Ping Status

API that pings the Config Service and responds with status code.

Permissions

N/A

Http Request

GET /config/v1/status/ping

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response

Responds 200 Status code

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



User Settings

Service: Config

Operations

OPERATION	DESCRIPTION
Get User Settings	Fetches user settings
Set User Settings	Sets/Updates user settings



Get User Settings

API that fetches the settings of a user.

Permissions

- ReadAll

Http Request

GET /config/v1/user-settings/{id}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

N/A

Response

Object

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>



Set User Settings

API that sets the settings of a user.

Permissions

- ReadAll

Http Request

PUT /config/v1/user-settings/{id}

Request Headers

HEADER	VALUE
Authorization	Bearer {token}. Required.
Content-Type	application/json

Request Body

Object

Response

Object

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Namespace Mmm.Iot.Config.WebService.Controllers

Classes

[ConfigTypesController](#)

[DeviceGroupController](#)

[PackagesController](#)

[SeedController](#)

[SolutionSettingsController](#)

[StatusController](#)

[UserSettingsController](#)



Class ConfigTypesController

Inheritance

System.Object

ConfigTypesController

Inherited Members

System.Object.ToString()

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: [Mmm.Iot.Config.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class ConfigTypesController
```

Constructors

ConfigTypesController(IStorage)

Declaration

```
public ConfigTypesController(IStorage storage)
```

Parameters

TYPE	NAME	DESCRIPTION
IStorage	storage	

Methods

GetAllConfigTypesAsync()

Declaration

```
public Task<ConfigTypeListApiModel> GetAllConfigTypesAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<ConfigTypeListApiModel>	



Class DeviceGroupController

Inheritance

System.Object

DeviceGroupController

Namespace: [Mmm.Iot.Config.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class DeviceGroupController : Controller
```

Constructors

DeviceGroupController(IStorage)

Declaration

```
public DeviceGroupController(IStorage storage)
```

Parameters

TYPE	NAME	DESCRIPTION
IStorage	storage	

Methods

CreateAsync(DeviceGroupApiModel)

Declaration

```
public Task<DeviceGroupApiModel> CreateAsync(DeviceGroupApiModel input)
```

Parameters

TYPE	NAME	DESCRIPTION
DeviceGroupApiModel	input	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<DeviceGroupApiModel>	

DeleteAsync(String)

Declaration

```
public Task DeleteAsync(string id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

GetAllAsync()

Declaration

```
public Task<DeviceGroupListApiModel> GetAllAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<DeviceGroupListApiModel>	

GetAsync(String)

Declaration

```
public Task<DeviceGroupApiModel> GetAsync(string id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<DeviceGroupApiModel>	

UpdateAsync(String, DeviceGroupApiModel)

Declaration

```
public Task<DeviceGroupApiModel> UpdateAsync(string id, DeviceGroupApiModel input)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	
DeviceGroupApiModel	input	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<DeviceGroupApiModel>	



Class PackagesController

Inheritance

System.Object

PackagesController

Namespace: [Mmm.Iot.Config.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class PackagesController : Controller
```

Constructors

PackagesController(IStorage)

Declaration

```
public PackagesController(IStorage storage)
```

Parameters

TYPE	NAME	DESCRIPTION
IStorage	storage	

Fields

InactivePackageTag

Declaration

```
public const string InactivePackageTag = "reserved.inactive"
```

Field Value

TYPE	DESCRIPTION
System.String	

Methods

ActivatePackageAsync(String)

Declaration

```
public Task<ActionResult<PackageApiModel>> ActivatePackageAsync(string id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<ActionResult<PackageApiModel>>	

AddTagAsync(String, String)

Declaration

```
public Task<ActionResult<PackageApiModel>> AddTagAsync(string id, string tag)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	
System.String	tag	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<ActionResult<PackageApiModel>>	

DeactivatePackageAsync(String)

Declaration

```
public Task<ActionResult<PackageApiModel>> DeactivatePackageAsync(string id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<ActionResult<PackageApiModel>>	

DeleteAsync(String)

Declaration

```
public Task DeleteAsync(string id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

GetAsync(String)

Declaration

```
public Task<PackageApiModel> GetAsync(string id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<PackageApiModel>	

GetFilteredAsync(String, String, List<String>, String)

Declaration

```
public Task<PackageListApiModel> GetFilteredAsync(string packageType, string configType, List<string> tags, string tagOperator = "AND")
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	packageType	
System.String	configType	
List<System.String>	tags	
System.String	tagOperator	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<PackageListApiModel>	

PostAsync(String, String, String, String, List<String>, IFormFile)

Declaration

```
public Task<PackageApiModel> PostAsync(string packageName, string packageType, string configType, string version, List<string> tags, IFormFile package)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	packageName	
System.String	packageType	
System.String	configType	

TYPE	NAME	DESCRIPTION
System.String	version	
List<System.String>	tags	
IFormFile	package	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<PackageApiModel>	

RemoveTagAsync(String, String)

Declaration

```
public Task<ActionResult<PackageApiModel>> RemoveTagAsync(string id, string tag)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	
System.String	tag	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<ActionResult<PackageApiModel>>	

RemoveTagsAsync(String)

Declaration

```
public Task<ActionResult<PackageApiModel>> RemoveTagsAsync(string id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<ActionResult<PackageApiModel>>	

UploadFileAsync(IFormFile)

Declaration

```
public Task<UploadFileServiceModel> UploadFileAsync(IFormFile uploadedFile)
```

Parameters

TYPE	NAME	DESCRIPTION
IFormFile	uploadedFile	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<UploadFileServiceModel>	



Class SeedController

Inheritance

System.Object

SeedController

Namespace: [Mmm.Iot.Config.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class SeedController : Controller
```

Constructors

SeedController(ISeed)

Declaration

```
public SeedController(ISeed seed)
```

Parameters

TYPE	NAME	DESCRIPTION
ISeed	seed	

Methods

PostAsync()

Declaration

```
public Task PostAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	



Class SolutionSettingsController

Inheritance

System.Object

SolutionSettingsController

Namespace: [Mmm.Iot.Config.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class SolutionSettingsController : Controller
```

Constructors

SolutionSettingsController(IStorage, IActions)

Declaration

```
public SolutionSettingsController(IStorage storage, IActions actions)
```

Parameters

TYPE	NAME	DESCRIPTION
IStorage	storage	
IActions	actions	

Methods

GetActionsSettingsAsync()

Declaration

```
public Task<ActionSettingsListApiModel> GetActionsSettingsAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<ActionSettingsListApiModel>	

GetDefaultFirmwareSettingAsync()

Declaration

```
public Task<DefaultFirmwareSettingApiModel> GetDefaultFirmwareSettingAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<DefaultFirmwareSettingApiModel>	

GetLogoAsync()

Declaration

```
public Task GetLogoAsync()
```

--

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

GetThemeAsync()

Declaration

public Task<Theme> GetThemeAsync()

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<Theme>	

SetDefaultFirmwareSettingAsync(DefaultFirmwareSettingApiModel)

Declaration

public Task<ValueApiModel> SetDefaultFirmwareSettingAsync(DefaultFirmwareSettingApiModel settingModel)
--

Parameters

TYPE	NAME	DESCRIPTION
DefaultFirmwareSettingApiModel	settingModel	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<ValueApiModel>	

SetLogoAsync()

Declaration

public Task SetLogoAsync()

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

SetThemeAsync(Theme)

Declaration

public Task<Theme> SetThemeAsync(Theme theme)

Parameters

TYPE	NAME	DESCRIPTION
Theme	theme	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<Theme>	



Class StatusController

Inheritance

System.Object

StatusController

Namespace: [Mmm.Iot.Config.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public sealed class StatusController : ControllerBase
```

Constructors

StatusController(IStatusService)

Declaration

```
public StatusController(IStatusService statusService)
```

Parameters

TYPE	NAME	DESCRIPTION
IStatusService	statusService	

Methods

GetAsync()

Declaration

```
public Task<StatusApiModel> GetAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<StatusApiModel>	

Ping()

Declaration

```
public IActionResult Ping()
```

Returns

TYPE	DESCRIPTION
IActionResult	



Class UserSettingsController

Inheritance

System.Object

UserSettingsController

Namespace: [Mmm.Iot.Config.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class UserSettingsController : Controller
```

Constructors

UserSettingsController(IStorage)

Declaration

```
public UserSettingsController(IStorage storage)
```

Parameters

TYPE	NAME	DESCRIPTION
IStorage	storage	

Methods

GetUserSettingAsync(String)

Declaration

```
public Task<object> GetUserSettingAsync(string id)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Object>	

SetUserSettingAsync(String, Object)

Declaration

```
public Task<object> SetUserSettingAsync(string id, object setting)
```

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

TYPE	NAME	DESCRIPTION
System.Object	setting	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task<System.Object>	



Device Telemetry

Device Telemetry service is used to manage Alarms, Rules, AlarmsByRules, Message and Device Files.

Within each Serenity Instance an interactive Swagger UI is available at the following path

`https://{platform-url}/telemetry/index.html` For more information, [click here](#).

REST operation groups

The Device Telemetry service REST API provides operations for working with the following:

Alarms	Manage Alarms
AlarmsByRule	Fetch paginated details of Rules with Alarms count and Alarms for specific rule
DeviceFiles	Fetch device files and download
Messages	Manage Messages
Rules	Manage Rules
Status	Health status operations



Alarms

Service: Device Telemetry

Operations

List	Get list of alarms
Details	Get alarm details
Delete	Delete alarms



List Alarms

Service: Device Telemetry

GET https://{platform-url}/telemetry /v1 /Alarms

URI Parameters

NAME	REQUIRED	TYPE	DESCRIPTION
from	No	string	Start time as ISO8601 or "NOW-{ISO 8601 duration}"
to	No	string	End time as ISO8601 or "NOW-{ISO 8601 duration}"
order	No	string	Set sort order: oldest ("asc"), newest ("desc")
skip	No	string	Alarms to skip. Used for pagination.
limit	No	string	Return count. Default 100.
devices	No	string	Filter used to request specific devices

Responses

NAME	TYPE
200 OK	AlarmListApiModel

Definitions

AlarmListApiModel Schema

```
{
  "items": [
    {
      "metadata": {
        "additionalProp1": "string",
        "additionalProp2": "string",
        "additionalProp3": "string"
      },
      "eTag": "string",
      "id": "string",
      "dateCreated": "string",
      "dateModified": "string",
      "description": "string",
      "groupId": "string",
      "deviceId": "string",
      "status": "string",
      "rule": {
        "metadata": {
          "additionalProp1": "string",
          "additionalProp2": "string",
          "additionalProp3": "string"
        },
        "id": "string",
        "severity": "string",
        "description": "string"
      }
    }
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Required Permissions

ReadAll

Examples

Get Alarms by Condition

Example Request Body

```
{
  "from": "NOW-PT24H",
  "to": "NOW",
  "order": "desc",
  "skip": 0,
  "limit": 5,
  "devices": [
    "deviceId1",
    "deviceId2",
  ]
}
```

Example Response

```

```json
{
 "Items": [
 {
 "ETag": "\"0100e67a-0000-0300-0000-5f8833120000\"",
 "Id": "84cd95cd-c5ee-2095-495a-3f47a9d3476f",
 "DateCreated": "2020-10-15T11:31:00+00:00",
 "DateModified": "2020-10-15T11:31:00+00:00",
 "Description": null,
 "GroupId": null,
 "DeviceId": "sah_test_device",
 "Status": "open",
 "Rule": {
 "Id": "40550ad4-d830-4e69-8ba3-cd0b9ef7eec8",
 "Severity": "Critical",
 "Description": "TestDesc",
 "$metadata": {
 "$type": "Rule;1",
 "$uri": "/v1/rules/ 40550ad4-d830-4e69-8ba3-cd0b9ef7eec8"
 }
 },
 "$metadata": {
 "$type": "Alarm;1",
 "$uri": "/v1/alarms/ 84cd95cd-c5ee-2095-495a-3f47a9d3476f"
 }
 }
],
 "$metadata": {
 "$type": "Alarms;1",
 "$uri": "/v1/alarms"
 }
}
```

```

Get Alarm by Id

Request Format

```
GET /telemetry /v1/Alarms/{guid}
```

Example Request

```
GET /telemetry /v1/Alarms/84cd95cd-c5ee-2095-495a-3f47a9d3476f
```

Example Response

- Status Code 200


```
{
  "ETag": "\"0100e67a-0000-0300-0000-5f8833120000\"",
  "Id": "84cd95cd-c5ee-2095-495a-3f47a9d3476f",
  "DateCreated": "2020-10-15T11:31:00+00:00",
  "DateModified": "2020-10-15T11:31:00+00:00",
  "Description": null,
  "GroupId": null,
  "DeviceId": "sah_test_device",
  "Status": "open",
  "Rule": {
    "Id": "40550ad4-d830-4e69-8ba3-cd0b9ef7eec8",
    "Severity": "Critical",
    "Description": "TestDesc",
    "$metadata": {
      "$type": "Rule;1",
      "$uri": "/v1/rules/ 40550ad4-d830-4e69-8ba3-cd0b9ef7eec8"
    }
  },
  "$metadata": {
    "$type": "Alarm;1",
    "$uri": "/v1/alarms/ 84cd95cd-c5ee-2095-495a-3f47a9d3476f"
  }
}
```



Alarm Details

Service: Device Telemetry

Get

```
GET https://{platform-url}/connect/authorize
```



Delete Alarms

Service: Device Telemetry

Get

```
GET https://{platform-url}/connect/authorize
```



Alarms By Rule

Service: Device Telemetry

Operations

| OPERATION | DESCRIPTION |
|---|--|
| Get rules with alarms count | Fetches the list of rules with recorded alarms count |
| Get rules with alarms count - Alternative | Fetches the list of rules with recorded alarms count-Alternate way |
| Get alarms for rule | Fetches the alarms for a rule |
| Get alarms for rule-Alternative | Fetches the alarms for a rule-Alternate way |



Get rules with alarms count

API that fetches the rules details with a count of recorded alarms.

Permissions

ReadAll

Http Request

GET /telemetry/v1/AlarmsByRule

Query parameters

| QUERY
PARAMETER | TYPE | EXAMPLE | DESCRIPTION |
|--------------------|--------|-------------|---|
| from | string | NOW-PT24H | The start of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| to | string | NOW | The end of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| order | string | desc | Whether to sort the result from the oldest (asc) or the most recent (desc) |
| skip | int | 0 | How many records to skip, used to paginate through the global list of rules |
| limit | int | 50 | How many records to return, used to paginate through the global list of rules |
| devices | string | id1,id6,xyz | A filter used to request rules for specific devices |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Status Code 200:

```
{
  "Items": [
    {
      "Count": 17,
      "Status": "open",
      "Created": "2020-10-15T12:12:00+00:00",
      "Rule": {
        "Id": "54d0f242-c7e0-402d-9e39-f8d1e01a28a4",
        "Severity": "Critical",
        "Description": "TestDesc",
        "$metadata": {
          "$type": "Rule;1",
          "$uri": "/v1/rules/ 54d0f242-c7e0-402d-9e39-f8d1e01a28a4"
        }
      },
      "$metadata": {
        "$type": "AlarmByRule;1",
        "$uri": "/v1/alarmsbyrule/ 54d0f242-c7e0-402d-9e39-f8d1e01a28a4"
      }
    },
    "$metadata": {
      "$type": "AlarmByRuleList;1",
      "$uri": "/v1/alarmsbyrule"
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Get rules with alarms count - Alternate way

API that fetches the rules details with a count of recorded alarms that are related to rules.

Permissions

ReadAll

Http Request

POST /telemetry/v1/AlarmsByRule

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

```
{
  "from": "NOW-PT24H",
  "to": "NOW",
  "order": "desc",
  "skip": 0,
  "limit": 50,
  "devices": [
    "xyx"
  ]
}
```

| NAME | TYPE | EXAMPLE | DESCRIPTION |
|---------|--------|------------------------|---|
| from | string | NOW-PT24H | The start of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| to | string | NOW | The end of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| order | string | desc | Whether to sort the result from the oldest (asc) or the most recent (desc) |
| skip | int | 0 | How many records to skip, used to paginate through the global list of rules |
| limit | int | 50 | How many records to return, used to paginate through the global list of rules |
| devices | list | ["id1","id6", "xyz"] | A filter used to request rules for specific devices |

Response

- Status Code 200:

```
{
  "Items": [
    {
      "Count": 17,
      "Status": "open",
      "Created": "2020-10-15T12:12:00+00:00",
      "Rule": {
        "Id": "54d0f242-c7e0-402d-9e39-f8d1e01a28a4",
        "Severity": "Critical",
        "Description": "TestDesc",
        "$metadata": {
          "$type": "Rule;1",
          "$uri": "/v1/rules/ 54d0f242-c7e0-402d-9e39-f8d1e01a28a4"
        }
      },
      "$metadata": {
        "$type": "AlarmByRule;1",
        "$uri": "/v1/alarmsbyrule/ 54d0f242-c7e0-402d-9e39-f8d1e01a28a4"
      }
    },
    {
      "$metadata": {
        "$type": "AlarmByRuleList;1",
        "$uri": "/v1/alarmsbyrule"
      }
    }
  ],
  "$metadata": {
    "$type": "AlarmByRuleList;1",
    "$uri": "/v1/alarmsbyrule"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Get alarms for rule

API that fetches the alarms details for specified rule.

Permissions

ReadAll

Http Request

GET /telemetry/v1/AlarmsByRule/{id}

Parameters

| PARAMETER | TYPE | DESCRIPTION |
|-----------|------|----------------------|
| Id | guid | It represents RuleId |

Query parameters

| QUERY
PARAMETER | TYPE | EXAMPLE | DESCRIPTION |
|--------------------|--------|-------------|---|
| from | string | NOW-PT24H | The start of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| to | string | NOW | The end of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| order | string | desc | Whether to sort the result from the oldest (asc) or the most recent (desc) |
| skip | int | 0 | How many records to skip, used to paginate through the global list of alarms |
| limit | int | 50 | How many records to return, used to paginate through the global list of alarms |
| devices | string | id1,id6,xyz | A filter used to request alarms for specific devices |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Status Code 200:

```
{
  "Items": [
    {
      "ETag": "\"0100ab90-0000-0300-0000-5f883c960000\"",
      "Id": "c0b8c7e9-cf10-a270-e318-94e625bdacc2",
      "DateCreated": "2020-10-15T12:12:00+00:00",
      "DateModified": "2020-10-15T12:12:00+00:00",
      "Description": null,
      "GroupId": null,
      "DeviceId": "test-telemetry",
      "Status": "open",
      "Rule": {
        "Id": "54d0f242-c7e0-402d-9e39-f8d1e01a28a4",
        "Severity": "Critical",
        "Description": "TestDesc",
        "$metadata": {
          "$type": "Rule;1",
          "$uri": "/v1/rules/ 54d0f242-c7e0-402d-9e39-f8d1e01a28a4"
        }
      },
      "$metadata": {
        "$type": "Alarm;1",
        "$uri": "/v1/alarms/ c0b8c7e9-cf10-a270-e318-94e625bdacc2"
      }
    },
    {
      "$metadata": {
        "$type": "AlarmsByRule;1",
        "$uri": "/v1/alarmsbyrule"
      }
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Get alarms for rule - Alternate way

API that fetches the alarms details for specified rule.

Permissions

ReadAll

Http Request

POST /telemetry/v1/AlarmsByRule/{id}

Parameters

| PARAMETER | TYPE | DESCRIPTION |
|-----------|------|----------------------|
| Id | guid | It represents RuleId |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

```
{
  "from": "NOW-PT24H",
  "to": "NOW",
  "order": "desc",
  "skip": 0,
  "limit": 50,
  "devices": [
    "xyx"
  ]
}
```

| NAME | TYPE | EXAMPLE | DESCRIPTION |
|---------|--------|------------------------|---|
| from | string | NOW-PT24H | The start of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| to | string | NOW | The end of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| order | string | desc | Whether to sort the result from the oldest (asc) or the most recent (desc) |
| skip | int | 0 | How many records to skip, used to paginate through the global list of alarms |
| limit | int | 50 | How many records to return, used to paginate through the global list of alarms |
| devices | list | ["id1","id6", "xyz"] | A filter used to request alarms for specific devices |

Response

- Status Code 200:

```
{
  "Items": [
    {
      "ETag": "\"0100ab90-0000-0300-0000-5f883c960000\"",
      "Id": "c0b8c7e9-cf10-a270-e318-94e625bdacc2",
      "DateCreated": "2020-10-15T12:12:00+00:00",
      "DateModified": "2020-10-15T12:12:00+00:00",
      "Description": null,
      "GroupId": null,
      "DeviceId": "test-telemetry",
      "Status": "open",
      "Rule": {
        "Id": "54d0f242-c7e0-402d-9e39-f8d1e01a28a4",
        "Severity": "Critical",
        "Description": "TestDesc",
        "$metadata": {
          "$type": "Rule;1",
          "$uri": "/v1/rules/ 54d0f242-c7e0-402d-9e39-f8d1e01a28a4"
        }
      },
      "$metadata": {
        "$type": "Alarm;1",
        "$uri": "/v1/alarms/ c0b8c7e9-cf10-a270-e318-94e625bdacc2"
      }
    },
    {
      "$metadata": {
        "$type": "AlarmsByRule;1",
        "$uri": "/v1/alarmsbyrule"
      }
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Device Files

Service: Device Telemetry

Operations

| | |
|--|---|
| | |
| Get files uploaded by device | Fetches details of files uploaded by a device |
| Download a device file | Download a device file |



Get files uploaded by device

API that fetches device uploaded files details for a specific device.

Permissions

ReadAll

Http Request

GET /telemetry/v1/DeviceFiles/{deviceId}

Parameters

| QUERY PARAMETER | TYPE | DESCRIPTION |
|-----------------|------|-------------|
| deviceId | guid | Device Id |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response Schema

```
{
  "items": [
    {
      "name": "string",
      "blobName": "string",
      "uploadedBy": "string",
      "uploadedOn": "string",
      "size": 0
    }
  ]
}
```

Response

- Status Code 200

```
{
  "items": [
    {
      "name": "sample",
      "blobName": "sample",
      "uploadedBy": "sampleDevice",
      "uploadedOn": "date",
      "size": 0
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Download a device file

API that downloads a device file for given blob name.

Permissions

ReadAll

Http Request

POST /v1/DeviceFiles/Download

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

```
{
  "blobName": "string"
}
```

Response

Status Code 200.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Messages

Service: Device Telemetry

Operations

| OPERATION | DESCRIPTION |
|--|--|
| Get messages | Fetches list of messages |
| Get messages - Alternate way | Fetches list of messages - Alternate way |
| Get recent messages for device | Fetches most recent list of messages of device |



Get messages

API that fetches list of messages.

Permissions

ReadAll

Http Request

GET /telemetry/v1/Messages

Query parameters

| QUERY
PARAMETER | TYPE | EXAMPLE | DESCRIPTION |
|--------------------|--------|-------------|---|
| from | string | NOW-PT24H | The start of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| to | string | NOW | The end of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| order | string | desc | Whether to sort the result from the oldest (asc) or the most recent (desc) |
| skip | int | 0 | How many records to skip, used to paginate through the global list of messages |
| limit | int | 50 | How many records to return, used to paginate through the global list of messages |
| devices | string | id1,id6,xyz | A filter used to request messages for specific devices |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response Schema

```
{
  "items": [
    {
      "deviceId": "string",
      "time": "string",
      "data": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      }
    }
  ],
  "properties": [
    "string"
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Response

- Status Code 200

```
{
  "Items": [
    {
      "DeviceId": "Elevator1",
      "Time": "2017-01-14T05:39:45+00:00",
      "Data": {
        "current_floor": 7
      }
    }
  ],
  "Properties": [
    "current_floor",
    "temperature",
    "t_unit",
    "humidity",
    "latitude",
    "longitude"
  ],
  "$metadata": {
    "$type": "MessageList;v1",
    "$uri": "/v1/messages"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Get messages - Alternate way

API that fetches list of messages.

Permissions

ReadAll

Http Request

POST /telemetry/v1/Messages

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

```
{
  "from": "string",
  "to": "string",
  "order": "string",
  "skip": 0,
  "limit": 0,
  "devices": [
    "string"
  ]
}
```

| NAME | TYPE | EXAMPLE | DESCRIPTION |
|---------|--------|------------------------|---|
| from | string | NOW-PT24H | The start of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| to | string | NOW | The end of the time window for the query. ISO8601 format or "NOW-{ISO 8601 duration}" |
| order | string | desc | Whether to sort the result from the oldest (asc) or the most recent (desc) |
| skip | int | 0 | How many records to skip, used to paginate through the global list of messages |
| limit | int | 50 | How many records to return, used to paginate through the global list of messages |
| devices | list | ["id1","id6", "xyz"] | A filter used to request messages for specific devices |

Response Schema

```
{
  "items": [
    {
      "deviceId": "string",
      "time": "string",
      "data": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      }
    }
  ],
  "properties": [
    "string"
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Response

- Status Code 200

```
{
  "Items": [
    {
      "DeviceId": "Elevator1",
      "Time": "2017-01-14T05:39:45+00:00",
      "Data": {
        "current_floor": 7
      }
    }
  ],
  "Properties": [
    "current_floor",
    "temperature",
    "t_unit",
    "humidity",
    "latitude",
    "longitude"
  ],
  "$metadata": {
    "$type": "MessageList;v1",
    "$uri": "/v1/messages"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Get recent messages for device

API that fetches recent list of messages for specific device.

Permissions

ReadAll

Http Request

GET /telemetry/v1/Messages/RecentMessages

Query parameters

| QUERY PARAMETER | TYPE | EXAMPLE | DESCRIPTION |
|-----------------|--------|---------|--|
| limit | Int | 50 | How many records to return. |
| deviceId | string | xyz | A filter used to request message for specific device |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response Schema

```
{
  "items": [
    {
      "deviceId": "string",
      "time": "string",
      "data": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      }
    }
  ],
  "properties": [
    "string"
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Response

- Status Code 200

```
{
  "Items": [
    {
      "DeviceId": "Elevator1",
      "Time": "2017-01-14T05:39:45+00:00",
      "Data": {
        "current_floor": 7
      }
    }
  ],
  "Properties": [
    "current_floor",
    "temperature",
    "t_unit",
    "humidity",
    "latitude",
    "longitude"
  ],
  "$metadata": {
    "$type": "MessageList;v1",
    "$uri": "/v1/messages"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Rules

Service: Device Telemetry

Operations

| OPERATION | DESCRIPTION |
|-----------------------------------|-----------------------|
| Get Rule | Fetches a Rule |
| Update Rule | Updates a Rule |
| Delete Rule | Deletes a Rule |
| Get list of Rules | Fetches list of Rules |
| Create Rule | Creates a Rule |



Get Rule

API that fetches specific rule details.

Permissions

ReadAll

Http Request

GET /telemetry/v1/Rules/{id}

parameters

| QUERY PARAMETER | TYPE | DESCRIPTION |
|-----------------|--------|-------------|
| id | string | Rule Id |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response Schema

```
{
  "eTag": "string",
  "id": "string",
  "name": "string",
  "dateCreated": "string",
  "dateModified": "string",
  "enabled": true,
  "description": "string",
  "groupId": "string",
  "severity": "string",
  "conditions": [
    {
      "field": "string",
      "operator": "string",
      "value": "string"
    }
  ],
  "calculation": "string",
  "timePeriod": "string",
  "actions": [
    {
      "type": "string",
      "parameters": {
        "additionalProp1": {},
        "additionalProp2": {},
        "additionalProp3": {}
      }
    }
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "deleted": true,
  "lastTrigger": "string"
}
```

Response

- Status Code 200

```
{
  "ETag": "\"0100bd80-0000-0300-0000-5fa15d400000\"",
  "Id": "2b32322d-8414-469b-9724-b873577b61b4",
  "Name": "New rule",
  "DateCreated": "2020-09-24T11:17:06+00:00",
  "DateModified": "2020-11-03T13:38:08+00:00",
  "Enabled": true,
  "Description": "Sample rule to test",
  "GroupId": "67c56894-b4c9-4ad1-8dd6-1373177060dd",
  "Severity": "Info",
  "Conditions": [
    {
      "Field": "temperature",
      "Operator": "GreaterThan",
      "Value": "0"
    }
  ],
  "Calculation": "Average",
  "TimePeriod": "600000",
  "$metadata": {
    "$type": "Rule;1",
    "$uri": "/v1/rules/2b32322d-8414-469b-9724-b873577b61b4"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Update Rule

API that updates rule.

Permissions

UpdateRules

Http Request

PUT /telemetry/v1/Rules/{id}

parameters

| QUERY PARAMETER | TYPE | DESCRIPTION |
|-----------------|--------|-------------|
| id | string | Rule Id |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

```
{
  "eTag": "string",
  "id": "string",
  "name": "string",
  "dateCreated": "string",
  "dateModified": "string",
  "enabled": true,
  "description": "string",
  "groupId": "string",
  "severity": "string",
  "conditions": [
    {
      "field": "string",
      "operator": "string",
      "value": "string"
    }
  ],
  "calculation": "string",
  "timePeriod": "string",
  "actions": [
    {}
  ],
  "deleted": true,
  "lastTrigger": "string"
}
```

Response Schema

```
{
  "eTag": "string",
  "id": "string",
  "name": "string",
  "dateCreated": "string",
  "dateModified": "string",
  "enabled": true,
  "description": "string",
  "groupId": "string",
  "severity": "string",
  "conditions": [
    {
      "field": "string",
      "operator": "string",
      "value": "string"
    }
  ],
  "calculation": "string",
  "timePeriod": "string",
  "actions": [
    {
      "type": "string",
      "parameters": {
        "additionalProp1": {},
        "additionalProp2": {},
        "additionalProp3": {}
      }
    }
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "deleted": true,
  "lastTrigger": "string"
}
```

Response

- Status Code 200

```
{
  "ETag": "\"0100bd80-0000-0300-0000-5fa15d400000\"",
  "Id": "2b32322d-8414-469b-9724-b873577b61b4",
  "Name": "New rule",
  "DateCreated": "2020-09-24T11:17:06+00:00",
  "DateModified": "2020-11-03T13:38:08+00:00",
  "Enabled": true,
  "Description": "Sample rule to test",
  "GroupId": "67c56894-b4c9-4ad1-8dd6-1373177060dd",
  "Severity": "Info",
  "Conditions": [
    {
      "Field": "temperature",
      "Operator": "GreaterThan",
      "Value": "0"
    }
  ],
  "Calculation": "Average",
  "TimePeriod": "600000",
  "$metadata": {
    "$type": "Rule;1",
    "$uri": "/v1/rules/2b32322d-8414-469b-9724-b873577b61b4"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Delete Rule

API that deletes a rule.

Permissions

DeleteRules

Http Request

DELETE /telemetry/v1/Rules/{id}

parameters

| QUERY PARAMETER | TYPE | DESCRIPTION |
|-----------------|--------|-------------|
| id | string | Rule Id |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

Status Code 200

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Get Rules

API that fetches list of rules.

Permissions

ReadAll

Http Request

Get /telemetry/v1/Rules

Query parameters

| QUERY
PARAMETER | TYPE | EXAMPLE | DESCRIPTION |
|--------------------|--------|--|---|
| order | string | desc | Whether to sort the result from the oldest (asc) or the most recent (desc) |
| skip | int | 0 | How many records to skip, used to paginate through the global list of rules |
| limit | int | 50 | How many records to return, used to paginate through the global list of rules |
| groupId | string | "cd9bba84-274a-4d69-8e49-81f4933d3a36" | groupId for a specific group of devices the rule applies to |
| includeDeleted | bool | true | A filter used to request rules along with deleted rules |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response Schema


```

{
  "items": [
    {
      "eTag": "string",
      "id": "string",
      "name": "string",
      "dateCreated": "string",
      "dateModified": "string",
      "enabled": true,
      "description": "string",
      "groupId": "string",
      "severity": "string",
      "conditions": [
        {
          "field": "string",
          "operator": "string",
          "value": "string"
        }
      ],
      "calculation": "string",
      "timePeriod": "string",
      "actions": [
        {
          "type": "string",
          "parameters": {
            "additionalProp1": {},
            "additionalProp2": {},
            "additionalProp3": {}
          }
        }
      ],
      "metadata": {
        "additionalProp1": "string",
        "additionalProp2": "string",
        "additionalProp3": "string"
      },
      "deleted": true,
      "lastTrigger": "string"
    }
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}

```

Response

- Status Code 200:

```

{
  "Items": [
    {
      "ETag": "\"0100bd80-0000-0300-0000-5fa15d400000\"",
      "Id": "2b32322d-8414-469b-9724-b873577b61b4",
      "Name": "New rule",
      "DateCreated": "2020-09-24T11:17:06+00:00",
      "DateModified": "2020-11-03T13:38:08+00:00",
      "Enabled": true,
      "Description": "Sample rule to test",
      "GroupId": "67c56894-b4c9-4ad1-8dd6-1373177060dd",
      "Severity": "Info",
      "Conditions": [
        {
          "Field": "temperature",
          "Operator": "GreaterThan",
          "Value": "0"
        }
      ],
      "Calculation": "Average",
      "TimePeriod": "600000",
      "$metadata": {
        "$type": "Rule;1",
        "$uri": "/v1/rules/2b32322d-8414-469b-9724-b873577b61b4"
      }
    }
  ],
  "$metadata": {
    "$type": "RuleList;1",
    "$uri": "/v1/rules"
  }
}

```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Create Rule

API that Create rule.

Permissions

CreateRules

Http Request

POST /telemetry/v1/Rules

Query parameters

| QUERY PARAMETER | TYPE | EXAMPLE | DESCRIPTION |
|-----------------|--------|---------|-------------|
| template | string | N/A | N/A |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

```
{
  "eTag": "string",
  "id": "string",
  "name": "string",
  "dateCreated": "string",
  "dateModified": "string",
  "enabled": true,
  "description": "string",
  "groupId": "string",
  "severity": "string",
  "conditions": [
    {
      "field": "string",
      "operator": "string",
      "value": "string"
    }
  ],
  "calculation": "string",
  "timePeriod": "string",
  "actions": [
    {}
  ],
  "deleted": true,
  "lastTrigger": "string"
}
```

Response Schema

```
{
  "eTag": "string",
  "id": "string",
  "name": "string",
  "dateCreated": "string",
  "dateModified": "string",
  "enabled": true,
  "description": "string",
  "groupId": "string",
  "severity": "string",
  "conditions": [
    {
      "field": "string",
      "operator": "string",
      "value": "string"
    }
  ],
  "calculation": "string",
  "timePeriod": "string",
  "actions": [
    {
      "type": "string",
      "parameters": {
        "additionalProp1": {},
        "additionalProp2": {},
        "additionalProp3": {}
      }
    }
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "deleted": true,
  "lastTrigger": "string"
}
```

Response

- Status Code 200:

```
{
  "ETag": "\"0100bd80-0000-0300-0000-5fa15d400000\"",
  "Id": "2b32322d-8414-469b-9724-b873577b61b4",
  "Name": "New rule",
  "DateCreated": "2020-09-24T11:17:06+00:00",
  "DateModified": "2020-11-03T13:38:08+00:00",
  "Enabled": true,
  "Description": "Sample rule to test",
  "GroupId": "67c56894-b4c9-4ad1-8dd6-1373177060dd",
  "Severity": "Info",
  "Conditions": [
    {
      "Field": "temperature",
      "Operator": "GreaterThan",
      "Value": "0"
    }
  ],
  "Calculation": "Average",
  "TimePeriod": "600000",
  "$metadata": {
    "$type": "Rule;1",
    "$uri": "/v1/rules/2b32322d-8414-469b-9724-b873577b61b4"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Status

Service: Device Telemetry

Operations

| OPERATION | DESCRIPTION |
|-----------------------------|---|
| Get Status | Gets status of the Service and its dependencies |
| Ping Status | Provides the health status of the service. |



Get Status

API that fetches the status of the Device Telemetry Service.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|--------------------------|
| GET /telemetry/v1/status |
|--------------------------|

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

- Responds 200 Status code

```
{
  "Name": "Device Telemetry",
  "Status": {
    "IsHealthy": true,
    "Message": "Alive and well!"
  },
  "CurrentTime": "2020-11-02T10:33:29+00:00",
  "StartTime": "2020-10-26T22:59:53+00:00",
  "UpTime": 560015,
  "UID": "WebService.6d23f2fb-a074-481b-b7e4-1ac24880d7dd",
  "Properties": {
    "authRequired": true,
    "endpoint": "http://+:80"
  },
  "Dependencies": {
    "Storage Adapter": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "Storage": {
      "IsHealthy": true,
      "Message": "Alive and Well!"
    },
    "Asa Manager": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "Time Series": {
      "IsHealthy": true,
      "Message": "Service disabled not in use"
    },
    "App Config": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    }
  },
  "$metadata": {
    "$type": "Status;0",
    "$uri": "/status"
  }
}
```




Ping Status

API that pings the Device Telemetry Service and responds to the status code.

Permissions

N/A

Http Request

GET /telemetry/v1/status/ping

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

N/A

Response

Responds 200 Status code



Namespace Mmm.Iot.DeviceTelemetry.WebService.Controllers

Classes

[AlarmsByRuleController](#)

[AlarmsController](#)

[DeviceFilesController](#)

[MessagesController](#)

[RulesController](#)

[StatusController](#)



Class AlarmsByRuleController

Inheritance

System.Object

AlarmsByRuleController

Namespace: [Mmm.Iot.DeviceTelemetry.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class AlarmsByRuleController : Controller
```

Constructors

AlarmsByRuleController(IAlarms, IRules, ILogger<AlarmsByRuleController>)

Declaration

```
public AlarmsByRuleController(IAlarms alarmService, IRules ruleService, ILogger<AlarmsByRuleController> logger)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---|--------------|-------------|
| IAlarms | alarmService | |
| IRules | ruleService | |
| ILogger< AlarmsByRuleController > | logger | |

Methods

GetAsync(String, String, String, Nullable<Int32>, Nullable<Int32>, String)

Declaration

```
public Task<AlarmByRuleListApiModel> GetAsync(string from, string to, string order, int? skip, int? limit, string devices)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------------------|---------|-------------|
| System.String | from | |
| System.String | to | |
| System.String | order | |
| System.Nullable<System.Int32> | skip | |
| System.Nullable<System.Int32> | limit | |
| System.String | devices | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<AlarmByRuleListModel> | |

GetAsync(String, String, String, String, Nullable<Int32>, Nullable<Int32>, String)

Declaration

```
public Task<AlarmListByRuleApiModel> GetAsync(string id, string from, string to, string order, int? skip, int? limit, string devices)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------------------|---------|-------------|
| System.String | id | |
| System.String | from | |
| System.String | to | |
| System.String | order | |
| System.Nullable<System.Int32> | skip | |
| System.Nullable<System.Int32> | limit | |
| System.String | devices | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<AlarmListByRuleApiModel> | |

PostAsync(QueryApiModel)

Declaration

```
public Task<AlarmByRuleListModel> PostAsync(QueryApiModel body)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| QueryApiModel | body | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<AlarmByRuleListModel> | |

PostAsync(String, QueryApiModel)

Declaration

```
public Task<AlarmListByRuleApiModel> PostAsync(string id, QueryApiModel body)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |
| QueryApiModel | body | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<AlarmListByRuleApiModel> | |



Class AlarmsController

Inheritance

System.Object
AlarmsController

Namespace: [Mmm.Iot.DeviceTelemetry.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class AlarmsController : Controller
```

Constructors

AlarmsController(IAlarms, ILogger<AlarmsController>)

Declaration

```
public AlarmsController(IAlarms alarmService, ILogger<AlarmsController> logger)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---|--------------|-------------|
| IAlarms | alarmService | |
| ILogger< AlarmsController > | logger | |

Methods

Delete(AlarmIdListApiModel)

Declaration

```
public void Delete(AlarmIdListApiModel alarmList)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------------|-----------|-------------|
| AlarmIdListApiModel | alarmList | |

DeleteAsync(String)

Declaration

```
public Task DeleteAsync(string id)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |

Returns

| TYPE | DESCRIPTION |
|-----------------------------|-------------|
| System.Threading.Tasks.Task | |

GetAsync(String)

Declaration

```
public Task<AlarmApiModel> GetAsync(string id)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<AlarmApiModel> | |

ListAsync(String, String, String, Nullable<Int32>, Nullable<Int32>, String)

Declaration

```
public Task<AlarmListApiModel> ListAsync(string from, string to, string order, int? skip, int? limit, string devices)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------------------|---------|-------------|
| System.String | from | |
| System.String | to | |
| System.String | order | |
| System.Nullable<System.Int32> | skip | |
| System.Nullable<System.Int32> | limit | |
| System.String | devices | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<AlarmListApiModel> | |

PatchAsync(String, AlarmStatusApiModel)

Declaration

```
public Task<AlarmApiModel> PatchAsync(string id, AlarmStatusApiModel body)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------------|------|-------------|
| System.String | id | |
| AlarmStatusApiModel | body | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<AlarmApiModel> | |

PostAsync(QueryApiModel)

Declaration

```
public Task<AlarmListApiModel> PostAsync(QueryApiModel body)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| QueryApiModel | body | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<AlarmListApiModel> | |



Class DeviceFilesController

Inheritance

System.Object

DeviceFilesController

Namespace: [Mmm.Iot.DeviceTelemetry.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class DeviceFilesController : Controller
```

Constructors

DeviceFilesController(IDeviceFileUploads)

Declaration

```
public DeviceFilesController(IDeviceFileUploads deviceFileUploads)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|--------------------|-------------------|-------------|
| IDeviceFileUploads | deviceFileUploads | |

Methods

GetDeviceUploads(String)

Declaration

```
public Task<DeviceFileListApiModel> GetDeviceUploads(string deviceId)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|----------|-------------|
| System.String | deviceId | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DeviceFileListApiModel> | |

GetFileContents(DownloadRequest)

Declaration

```
public Task<IActionResult> GetFileContents(DownloadRequest downloadRequest)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-----------------|-----------------|-------------|
| DownloadRequest | downloadRequest | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<ActionResult> | |



Class MessagesController

Inheritance

System.Object
MessagesController

Namespace: [Mmm.Iot.DeviceTelemetry.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public sealed class MessagesController : Controller
```

Constructors

MessagesController(IMessages, ILogger<MessagesController>, AppConfig)

Declaration

```
public MessagesController(IMessages messageService, ILogger<MessagesController> logger, AppConfig config)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---|----------------|-------------|
| IMessages | messageService | |
| ILogger< MessagesController > | logger | |
| AppConfig | config | |

Methods

GetAsync(String, String, String, Nullable<Int32>, Nullable<Int32>, String)

Declaration

```
public Task<MessageListApiModel> GetAsync(string from, string to, string order, int? skip, int? limit, string devices)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------------------|---------|-------------|
| System.String | from | |
| System.String | to | |
| System.String | order | |
| System.Nullable<System.Int32> | skip | |
| System.Nullable<System.Int32> | limit | |
| System.String | devices | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<MessageListApiModel> | |

GetTopDeviceMessagesAsync(Nullable<Int32>, String)

Declaration

```
public Task<MessageListApiModel> GetTopDeviceMessagesAsync(int? limit, string deviceId)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------------------|----------|-------------|
| System.Nullable<System.Int32> | limit | |
| System.String | deviceId | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<MessageListApiModel> | |

PostAsync(QueryApiModel)

Declaration

```
public Task<MessageListApiModel> PostAsync(QueryApiModel body)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| QueryApiModel | body | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<MessageListApiModel> | |



Class RulesController

Inheritance

System.Object

RulesController

Namespace: [Mmm.Iot.DeviceTelemetry.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public sealed class RulesController : Controller
```

Constructors

RulesController(IRules)

Declaration

```
public RulesController(IRules ruleService)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|--------|-------------|-------------|
| IRules | ruleService | |

Methods

DeleteAsync(String)

Declaration

```
public Task DeleteAsync(string id)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |

Returns

| TYPE | DESCRIPTION |
|-----------------------------|-------------|
| System.Threading.Tasks.Task | |

GetAsync(String)

Declaration

```
public Task<RuleApiModel> GetAsync(string id)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<RuleApiModel> | |

ListAsync(String, Nullable<Int32>, Nullable<Int32>, String, Nullable<Boolean>)

Declaration

```
public Task<RuleListApiModel> ListAsync(string order, int? skip, int? limit, string groupId, bool? includeDeleted)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------------------------|----------------|-------------|
| System.String | order | |
| System.Nullable<System.Int32> | skip | |
| System.Nullable<System.Int32> | limit | |
| System.String | groupId | |
| System.Nullable<System.Boolean> | includeDeleted | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<RuleListApiModel> | |

PostAsync(String, RuleApiModel)

Declaration

```
public Task<RuleApiModel> PostAsync(string template, RuleApiModel rule)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|----------|-------------|
| System.String | template | |
| RuleApiModel | rule | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<RuleApiModel> | |

PutAsync(String, RuleApiModel)

Declaration

```
public Task<RuleApiModel> PutAsync(string id, RuleApiModel rule)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |
| RuleApiModel | rule | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<RuleApiModel> | |



Class StatusController

Inheritance

System.Object

StatusController

Namespace: [Mmm.Iot.DeviceTelemetry.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public sealed class StatusController : ControllerBase
```

Constructors

StatusController(IStatusService)

Declaration

```
public StatusController(IStatusService statusService)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|---------------|-------------|
| IStatusService | statusService | |

Methods

GetAsync()

Declaration

```
public Task<StatusApiModel> GetAsync()
```

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<StatusApiModel> | |

Ping()

Declaration

```
public IActionResult Ping()
```

Returns

| TYPE | DESCRIPTION |
|---------------|-------------|
| IActionResult | |



Diagnostic Service

This document gives the overview of diagnostic service which will log the info.

Within each Serenity Instance an interactive Swagger UI is available at the following path
`https://{platform-url}/diagnostics/index.html` For more information, [click here](#).

REST operation groups

The Diagnostics Service REST API provides operations for working with the following:

| OPERATION GROUP | DESCRIPTION |
|------------------------------------|--|
| Diagnostics Events | Logs the events info passed. |
| Status | Health Status operations of the Service. |



Diagnostics Events Controller

Service: Diagnostics

Operations

| OPERATION | DESCRIPTION |
|--------------------------------------|--|
| Post Log Diagnostics | Save the logs with respective event type |



Post Log Diagnostics

This Method is used to save the logs with respective event type.

Permissions

ReadAll permission is required to call this api.

Http Request

```
POST /diagnostics/v1/diagnosticsevents
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

In the request body, supply a JSON representation of DiagnosticsEventModel object.

Following are the fields which are required for the user to be created successfully.

| PROPERTY | VALUE | REQUIRED |
|-----------------|---|--------------|
| EventType | Name of the user | Required |
| SessionId | Current status of the user ie., Invited or Member | Not Required |
| EventProperties | Role of the user i.e., admin, readonly, contributor | Not Required |

Sample Request

```
/diagnostics/v1/diagnosticsevents
```

Sample Request Body

```
{
  "EventType": "TestEventDiagnosticLog",
  "SessionId": "TestSession"
}
```

Response

```
201 Created
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Status

Service: Diagnostics

Status Contoller provides Health status of the Service and its dependencies.

Operations

| OPERATION | DESCRIPTION |
|-----------------------------|---|
| Get Status | Gets status of the Service and its dependencies |
| Ping Status | Provides the health status of the service. |



Get Status

API that fetches the status of Diagnostic Service.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|----------------------------|
| GET /diagnostics/v1/Status |
|----------------------------|

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

| |
|--|
| <pre>{ "Name": "Diagnostics", "Status": { "IsHealthy": true, "Message": "Alive and well!" }, "CurrentTime": "2020-11-02T09:35:38+00:00", "StartTime": "2020-10-26T22:59:44+00:00", "UpTime": 556554, "UID": "WebService.28f7b6d9-21dc-4ad0-b850-d82839f907d0", "Properties": { "authRequired": true, "endpoint": "http://+:80" }, "Dependencies": {}, "\$metadata": { "\$type": "Status;0", "\$uri": "/status" } }</pre> |
|--|



Ping Status

API that pings the Diagnostic Service and responds the status code.

Permissions

N/A

Http Request

GET /diagnostics/v1/status/ping

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

N/A

Response

Responds 200 Status code



Namespace Mmm.Iot.Diagnostics.WebService.Controllers

Classes

[DiagnosticsEventsController](#)

[StatusController](#)



Class DiagnosticsEventsController

Inheritance

System.Object

DiagnosticsEventsController

Namespace: [Mmm.Iot.Diagnostics.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class DiagnosticsEventsController : Controller
```

Constructors

DiagnosticsEventsController(IDiagnosticsClient)

Declaration

```
public DiagnosticsEventsController(IDiagnosticsClient diagnosticsClient)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|--------------------|-------------------|-------------|
| IDiagnosticsClient | diagnosticsClient | |

Methods

Post(DiagnosticsEventModel)

Declaration

```
public StatusCodeResult Post(DiagnosticsEventModel diagnosticsEvent)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-----------------------|------------------|-------------|
| DiagnosticsEventModel | diagnosticsEvent | |

Returns

| TYPE | DESCRIPTION |
|------------------|-------------|
| StatusCodeResult | |



Class StatusController

Inheritance

System.Object
StatusController

Namespace: [Mmm.Iot.Diagnostics.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public sealed class StatusController : ControllerBase
```

Constructors

StatusController(IStatusService)

Declaration

```
public StatusController(IStatusService statusService)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|---------------|-------------|
| IStatusService | statusService | |

Methods

GetAsync()

Declaration

```
public Task<StatusApiModel> GetAsync()
```

Returns

| TYPE | DESCRIPTION |
|----------------------|-------------|
| Task<StatusApiModel> | |

Ping()

Declaration

```
public IActionResult Ping()
```

Returns

| TYPE | DESCRIPTION |
|---------------|-------------|
| IActionResult | |



IoTHub Manager Service REST API

The IoTHub Manager service is used to manage Azure IoT Hub and devices.

Within each Serenity Instance an interactive Swagger UI is available at the following path
`https://{platform-url}/iothubmanager/index.html` For more information, [click here](#).

REST operation groups

The IoTHub Manager service REST API provides operations for working with the following:

| OPERATION GROUP | DESCRIPTION |
|----------------------------------|---|
| Deployments | Device Configuration operations to manage the Device Firmware. |
| DeviceProperties | Device Properties operation to get the Properties data from Devices. |
| Devices | CRUD operations, Invoke method operations for Devices. |
| Jobs | Create, Details for IoT Hub jobs to manage the tags, properties of devices. |
| Modules | Details operations of the Edge Modules. |
| Status | Health status operations for the Service. |



Deployments

Service: IoT Hub Manager

Operations

| OPERATION | DESCRIPTION |
|---------------------------------|---|
| Create Deployment | Creates a Device Configuration for Firmware or custom updates. |
| Get Deployments | Lists the deployments from the storage. |
| Get Deployment | Gets the details of specifed deployment from the storage or from IoT Hub based on the state. |
| Inactivate/Delete Deployment | Removes the Device Configuration from IoT Hub and marks the deployment as either inactivated or deleted. |
| Reactivate Deployment | Creates a Device Configuration using the data from the Inactivated deployment targetting the same conditions. |
| Get Deployment Impacted Devices | Lists the devices which are affected by the Deployment. |
| Get Deployment Impacted Modules | Lists the modules which are affected by the Deployment. |
| Get Deployment Report | rovides the report of the devices which are impacted by deployment in byte format. |



Create Deployment

Creates a new IoT Hub Configurations for IoT Devices or Edge Devices.

Http Request

```
POST /iothub-manager/v1/deployments
```

Permissions

CreateDeployments permission is required to call this api.

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

In the request body, supply a JSON representation of DeploymentApiModel object.

Following are the fields which are required for the deployment to create successfully.

| PROPERTY | VALUE | REQUIRED |
|------------------|---|---|
| DeviceGroupId | Device Group Id that is being targetted by Configuration | Yes |
| DeviceGroupName | DeviceGroupName | Yes |
| DeviceGroupQuery | JSON Serialized string of Conditions of DeviceGroup | No, If DeviceGroupId is provided, DeviceGroupQuery will be populated by fetching details of DeviceGroup using DeviceGroupId |
| Name | Deployment Name | Yes |
| PackageId | PackageId that is used for content to be used for configuration | Yes, If PackageContent is not provided. |
| PackageName | Name of the Package with Version Number | No |
| PackageContent | Configuration Content | Yes. If PackageContent is not provided but PackageId is provided, package content will be filled using package details. |
| Priority | Priority for Configuration | Yes, Should be a postive number |
| PackageType | Type which specifies the type of devices targetted | Yes |

| PROPERTY | VALUE | REQUIRED |
|------------|--|---|
| ConfigType | Type which specifies the type of configuration | Yes, If PackageType is DeviceConfiguration |
| DeviceIds | List of DeviceIds to be targetted by Configuration | No, Can be provided if configuration needs to target specific deviceids |

Request Schema

```
{
  "deploymentId": "string",
  "name": "string",
  "createdDateTimeUtc": "2020-10-29T15:57:07.671Z",
  "deviceGroupId": "string",
  "deviceGroupName": "string",
  "deviceGroupQuery": "string",
  "packageContent": "string",
  "packageName": "string",
  "packageId": "string",
  "priority": 0,
  "packageType": 0,
  "configType": "string",
  "metrics": {
    "systemMetrics": {
      "additionalProp1": 0,
      "additionalProp2": 0,
      "additionalProp3": 0
    },
    "customMetrics": {
      "additionalProp1": 0,
      "additionalProp2": 0,
      "additionalProp3": 0
    },
    "deviceStatuses": {
      "additionalProp1": 0,
      "additionalProp2": 0,
      "additionalProp3": 0
    }
  },
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "deviceIds": [
    "string"
  ],
  "isActive": true,
  "isLatest": true,
  "createdDate": "string",
  "modifiedDate": "string",
  "createdBy": "string",
  "modifiedBy": "string"
}
```

Sample Request

```
{
  "DeviceGroupId": "2f411a20-7632-45f0-bf43-5ae449b8727a",
  "DeviceGroupName": "TestDeviceGroup",
  "DeviceGroupQuery": "[{\"key\": \"Tags.TestDevice\", \"operator\": \"EQ\", \"value\": \"Yes\"}]",
  "Name": "TestDeviceGroupDeployment",
  "PackageId": "c5e6e9ab-1567-4f99-a026-b558f473afd1",
  "PackageName": "Package1 (1.0.0)",
  "PackageContent": "{\"content\": {\"deviceContent\": {\"properties.desired.softwareConfig\": {
    {\"softwareName\": \"Firmware\", \"version\": \"1.0.0\", \"softwareURL\": \"https://TestPackageUrl\", \"fileName\": \"SW1Package.json\", \"serialNumber\": \"\", \"checksum\": \"16b557cb7b4828cefe71b9a9fdadb534bdce6089\"}}}, \"metrics\": {\"queries\": {\"current\": \"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status='Success'\", \"applying\": \"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND ( properties.reported.softwareConfig.status='Downloading' OR properties.reported.softwareConfig.status='Verifying' OR properties.reported.softwareConfig.status='Applying')\", \"rebooting\": \"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status='Rebooting'\", \"error\": \"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.status='Error'\", \"rolledback\": \"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.status='RolledBack'\"}}, \"targetCondition\": \"\", \"priority\": 20, \"id\": \"sw1package_json-e406e3ff-3d21-4e37-b45c-d1d40ca5e7fa\"}}\",
    \"Priority\": \"4\",
    \"PackageType\": \"DeviceConfiguration\",
    \"ConfigType\": \"Firmware\"
  }
}
```

Response

If successful, this method returns 200 Created response code and DeploymentApiModel object in the response body.

Response Schema

```

{
  "deploymentId": "string",
  "name": "string",
  "createdDateTimeUtc": "2020-10-29T15:57:07.672Z",
  "deviceGroupId": "string",
  "deviceGroupName": "string",
  "deviceGroupQuery": "string",
  "packageContent": "string",
  "packageName": "string",
  "packageId": "string",
  "priority": 0,
  "packageType": 0,
  "configType": "string",
  "metrics": {
    "systemMetrics": {
      "additionalProp1": 0,
      "additionalProp2": 0,
      "additionalProp3": 0
    },
    "customMetrics": {
      "additionalProp1": 0,
      "additionalProp2": 0,
      "additionalProp3": 0
    },
    "deviceStatuses": {
      "additionalProp1": 0,
      "additionalProp2": 0,
      "additionalProp3": 0
    }
  },
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "deviceIds": [
    "string"
  ],
  "isActive": true,
  "isLatest": true,
  "createdDate": "string",
  "modifiedDate": "string",
  "createdBy": "string",
  "modifiedBy": "string"
}

```

Sample Response


```
{
  "Id": "cb5a32d0-57dd-4ec2-ab64-1c20efbd8b02",
  "Name": "TestDeviceGroupDeployment",
  "CreatedDateTimeUtc": "2020-10-29T09:11:57.8832701Z",
  "DeviceGroupId": "2f411a20-7632-45f0-bf43-5ae449b8727a",
  "DeviceGroupName": "TestDeviceGroup",
  "DeviceGroupQuery": "[{\"key\":\"Tags.TestDevice\", \"operator\":\"EQ\", \"value\":\"Yes\"}]",
  "PackageContent": "{\"content\":{\"deviceContent\":{\"properties.desired.softwareConfig\":
{ \"softwareName\":\"Firmware\", \"version\":\"1.0.0\", \"softwareURL\":\"https://TestPackageUrl\", \"fileName\":
\"SW1Package.json\", \"serialNumber\":\"\", \"checksum\":\"16b557cb7b4828cefe71b9a9fdadb534bdce6089\"}}, \"metr
ics\":{\"queries\":{\"current\":\"SELECT deviceId FROM devices WHERE configurations.
[[${deployment.id}].status = 'Applied' AND properties.reported.softwareConfig.version =
properties.desired.softwareConfig.version AND
properties.reported.softwareConfig.status='Success'\", \"applying\":\"SELECT deviceId FROM devices WHERE
configurations. [[${deployment.id}].status = 'Applied' AND (
properties.reported.softwareConfig.status='Downloading' OR
properties.reported.softwareConfig.status='Verifying' OR
properties.reported.softwareConfig.status='Applying')\", \"rebooting\":\"SELECT deviceId FROM devices WHERE
configurations. [[${deployment.id}].status = 'Applied' AND properties.reported.softwareConfig.version =
properties.desired.softwareConfig.version AND
properties.reported.softwareConfig.status='Rebooting'\", \"error\":\"SELECT deviceId FROM devices WHERE
configurations. [[${deployment.id}].status = 'Applied' AND
properties.reported.softwareConfig.status='Error'\", \"rolledback\":\"SELECT deviceId FROM devices WHERE
configurations. [[${deployment.id}].status = 'Applied' AND
properties.reported.softwareConfig.status='RolledBack'\"}}, \"targetCondition\":\"\", \"priority\":20, \"id\":\"
sw1package_json-e406e3ff-3d21-4e37-b45c-d1d40ca5e7fa\"}\",
  "PackageName": "Package1 (1.0.0)",
  "PackageId": "c5e6e9ab-1567-4f99-a026-b558f473afd1",
  "Priority": 4,
  "PackageType": "DeviceConfiguration",
  "ConfigType": "Firmware",
  "Metrics": {
    "SystemMetrics": {
      "appliedCount": 0,
      "targetedCount": 0
    },
    "CustomMetrics": null,
    "DeviceStatuses": null
  },
  "$metadata": {
    "$type": "DevicePropertyList;1",
    "$url": "/v1/deviceproperties"
  },
  "DeviceIds": null,
  "IsActive": true,
  "IsLatest": true,
  "CreatedDate": "2020-10-29T09:11:57+00:00",
  "ModifiedDate": null,
  "CreatedBy": "TestUser",
  "ModifiedBy": null
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>

Examples

1. Request for Creating Deployment for Devices using DeviceGroup.

```

{
  "DeviceGroupId": "2f411a20-7632-45f0-bf43-5ae449b8727a",
  "DeviceGroupName": "TestDeviceGroup",
  "DeviceGroupQuery": "[{\"key\": \"Tags.TestDevice\", \"operator\": \"EQ\", \"value\": \"Yes\"}]",
  "Name": "TestDeviceGroupDeployment",
  "PackageId": "c5e6e9ab-1567-4f99-a026-b558f473afd1",
  "PackageName": "Package1 (1.0.0)",
  "PackageContent": "{\"content\": {\"deviceContent\": {\"properties.desired.softwareConfig\": {\"softwareName\": \"Firmware\", \"version\": \"1.0.0\", \"softwareURL\": \"https://TestPackageUrl\", \"fileName\": \"SW1Package.json\", \"serialNumber\": \"\", \"checksum\": \"16b557cb7b4828cefe71b9a9fdadb534bdce6089\"}}}, \"metrics\": {\"queries\": {\"current\": \"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status='Success'\", \"applying\": \"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND (properties.reported.softwareConfig.status='Downloading' OR properties.reported.softwareConfig.status='Verifying' OR properties.reported.softwareConfig.status='Applying')\", \"rebooting\": \"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status='Rebooting'\", \"error\": \"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.status='Error'\", \"rolledback\": \"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.status='RolledBack'\"}}, \"targetCondition\": \"\", \"priority\": 20, \"id\": \"sw1package_json-e406e3ff-3d21-4e37-b45c-d1d40ca5e7fa\"}}\",
    \"Priority\": \"4\",
    \"PackageType\": \"DeviceConfiguration\",
    \"ConfigType\": \"Firmware\"
}

```

1. Request for Creating Deployment for Devices using Devicelds.

```
{
  "DeviceGroupId": "34b35ac5-837d-4fa4-9ab7-3cdf036a5145",
  "DeviceGroupName": "Default",
  "DeviceGroupQuery": "[]",
  "Name": "TestDeployment",
  "PackageId": "c5e6e9ab-1567-4f99-a026-b558f473afd1",
  "PackageName": "Package1 (1.0.0)",
  "PackageContent": "{\n\"content\":{\n\"deviceContent\":{\n\"properties.desired.softwareConfig\":{\n\"softwareName\":\n\"Firmware\", \n\"version\":\n\"1.0.0\", \n\"softwareURL\":\n\"https://TestPackageUrl\", \n\"fileName\":\n\"SW1Package.json\", \n\"serialNumber\":\n\", \n\"checksum\":\n\"16b557cb7b4828cefe71b9a9fdadb534bdce6089\", \n\"metrics\":{\n\"queries\":{\n\"current\":\n\"SELECT deviceId FROM devices WHERE configurations. [[${deployment.id}].status = 'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status='Success'\", \n\"applying\":\n\"SELECT deviceId FROM devices WHERE configurations. [[${deployment.id}].status = 'Applied' AND ( properties.reported.softwareConfig.status='Downloading' OR properties.reported.softwareConfig.status='Verifying' OR properties.reported.softwareConfig.status='Applying')\", \n\"rebooting\":\n\"SELECT deviceId FROM devices WHERE configurations. [[${deployment.id}].status = 'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status='Rebooting'\", \n\"error\":\n\"SELECT deviceId FROM devices WHERE configurations. [[${deployment.id}].status = 'Applied' AND properties.reported.softwareConfig.status='Error'\", \n\"rolledback\":\n\"SELECT deviceId FROM devices WHERE configurations. [[${deployment.id}].status = 'Applied' AND properties.reported.softwareConfig.status='RolledBack'\", \n\"targetCondition\":\n\", \n\"priority\":20, \n\"id\":\n\"sw1package_json-e406e3ff-3d21-4e37-b45c-d1d40ca5e7fa\"\", \n\"Priority\": \"4\", \n\"PackageType\": \"DeviceConfiguration\", \n\"ConfigType\": \"Firmware\", \n\"DeviceIds\":[\"TestDevice\"]\n}\n}"}
}
```

1. Request for Creating Deployment for Devices using DeviceIds and no packageContent

```
{
  "DeviceGroupId": "34b35ac5-837d-4fa4-9ab7-3cdf036a5145",
  "DeviceGroupName": "Default",
  "DeviceGroupQuery": "[]",
  "Name": "TestDeployment",
  "PackageId": "c5e6e9ab-1567-4f99-a026-b558f473afd1",
  "Priority": "4",
  "PackageType": "DeviceConfiguration",
  "ConfigType": "Firmware",
  "DeviceIds":["TestDevice"]
}
```



Get Deployments

Lists the deployments from the storage.

Permissions

ReadAll permission is required to call this api.

Http Request

GET /iothub-manager/v1/deployments

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

NA

Response

If successful, this method returns DeploymentListApiModel object in the response body.

```
{
  "Items": [
    {
      "Id": "cb5a32d0-57dd-4ec2-ab64-1c20efbd8b02",
      "Name": "TestDeviceGroupDeployment",
      "CreatedDateTimeUtc": "2020-10-29T09:11:57.8832701Z",
      "DeviceGroupId": "2f411a20-7632-45f0-bf43-5ae449b8727a",
      "DeviceGroupName": "TestDeviceGroup",
      "DeviceGroupQuery": "[{\"key\":\"Tags.TestDevice\",\"operator\":\"EQ\",\"value\":\"Yes\"}]",
      "PackageContent": "{\"content\":{\"deviceContent\":{\"properties.desired.softwareConfig\":{\"softwareName\":\"Firmware\",\"version\":\"1.0.0\",\"softwareURL\":\"https://TestPackageUrl\",\"fileName\":\"SW1Package.json\",\"serialNumber\":\"\",\"checksum\":\"16b557cb7b4828cefe71b9a9fdadb534bdce6089\"}},\"metrics\":{\"queries\":{\"current\":\"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status='Success'\",\"applying\":\"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND ( properties.reported.softwareConfig.status='Downloading' OR properties.reported.softwareConfig.status='Verifying' OR properties.reported.softwareConfig.status='Applying')\"},\"rebooting\":\"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.version = properties.desired.softwareConfig.version AND properties.reported.softwareConfig.status='Rebooting'\",\"error\":\"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.status='Error'\",\"rolledback\":\"SELECT deviceId FROM devices WHERE configurations.[[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.status='RolledBack'\"}},\"targetCondition\":\"\",\"priority\":20,\"id\":\"sw1package_json-e406e3ff-3d21-4e37-b45c-d1d40ca5e7fa\"}\",
      "PackageName": "Package1 (1.0.0)",
      "PackageId": "c5e6e9ab-1567-4f99-a026-b558f473afd1",
      "Priority": 4,
      "PackageType": "DeviceConfiguration"
```

```

    "PackageType": "DeviceConfiguration",
    "ConfigType": "Firmware",
    "Metrics": {
      "SystemMetrics": {
        "targetedCount": 1,
        "appliedCount": 1
      },
      "CustomMetrics": {},
      "DeviceStatuses": null
    },
    "$metadata": {
      "$type": "DevicePropertyList;1",
      "$url": "/v1/deviceproperties"
    },
    "DeviceIds": null,
    "IsActive": true,
    "IsLatest": true,
    "CreatedDate": "2020-10-29T09:11:57+00:00",
    "ModifiedDate": null,
    "CreatedBy": "TestUser",
    "ModifiedBy": null
  },
  {
    "Id": "5819a276-372c-4b15-a9a9-2d9c8c1053c4",
    "Name": "DeploymentSimulation",
    "CreatedDateTimeUtc": "2020-10-16T09:00:26.2705406Z",
    "DeviceGroupId": "85402f9f-3de2-4b55-bfd4-f7f3ce229270",
    "DeviceGroupName": "SimulationGroup",
    "DeviceGroupQuery": "[{\"key\":\"Tags.Org\",\"operator\":\"EQ\",\"value\":\"3M\"}]",
    "PackageContent": "{\"content\":{\"deviceContent\":{\"properties.desired.softwareConfig\":
    {\"softwareName\":\"Firmware\",\"version\":\"1.0.0\",\"softwareURL\":\"https://TestPackageUrl\",\"fileName\":
    \"SW1Package.json\",\"serialNumber\":\"\",\"checksum\":\"16b557cb7b4828cefe71b9a9fdadb534bdce6089\"}}},\"metr
    ics\":{\"queries\":{\"current\":\"SELECT deviceId FROM devices WHERE configurations.
    [[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.version =
    properties.desired.softwareConfig.version AND
    properties.reported.softwareConfig.status='Success'\",\"applying\":\"SELECT deviceId FROM devices WHERE
    configurations. [[${deployment.id}]].status = 'Applied' AND (
    properties.reported.softwareConfig.status='Downloading' OR
    properties.reported.softwareConfig.status='Verifying' OR
    properties.reported.softwareConfig.status='Applying')\"},\"rebooting\":\"SELECT deviceId FROM devices WHERE
    configurations. [[${deployment.id}]].status = 'Applied' AND properties.reported.softwareConfig.version =
    properties.desired.softwareConfig.version AND
    properties.reported.softwareConfig.status='Rebooting'\",\"error\":\"SELECT deviceId FROM devices WHERE
    configurations. [[${deployment.id}]].status = 'Applied' AND
    properties.reported.softwareConfig.status='Error'\",\"rolledback\":\"SELECT deviceId FROM devices WHERE
    configurations. [[${deployment.id}]].status = 'Applied' AND
    properties.reported.softwareConfig.status='RolledBack'\"}}},\"targetCondition\":\"\",\"priority\":20,\"id\":\"
    sw1package_json-e406e3ff-3d21-4e37-b45c-d1d40ca5e7fa\"}\",
    "PackageName": "Package1 (1.0.0)",
    "PackageId": "c5e6e9ab-1567-4f99-a026-b558f473afd1",
    "Priority": 4,
    "PackageType": "DeviceConfiguration",
    "ConfigType": "Firmware",
    "Metrics": {
      "SystemMetrics": {
        "targetedCount": 1,
        "appliedCount": 1,
        "reportedSuccessfulCount": 1,
        "reportedFailedCount": 0,
        "pendingCount": 0
      },
      "CustomMetrics": {
        "current": 1
      },
      "DeviceStatuses": {
        "SimulatedDevice": "Succeeded"
      }
    }
  }
}

```

```
    }
  },
  "$metadata": {
    "$type": "DevicePropertyList;1",
    "$url": "/v1/deviceproperties"
  },
  "DeviceIds": null,
  "IsActive": false,
  "IsLatest": false,
  "CreatedDate": "2020-10-16T08:49:03+00:00",
  "ModifiedDate": "2020-10-16T11:14:03+00:00",
  "CreatedBy": "TestUser",
  "ModifiedBy": "TestUser"
}
],
"$metadata": {
  "$type": "DevicePropertyList;1",
  "$url": "/v1/deviceproperties"
}
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Inactivate Deployment

Removes the Device Configuration from IoT Hub and marks the deployment as either inactivated or deleted.

Note:

Inactivated Deployments are available for **Reactivating** Deleted Deployments are stored for audit.

Permissions

DeleteDeployments permission is required to call this api.

Http Request

```
DELETE /iothub-manager/v1/deployments/{id}?isDelete={isDelete}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|----------|--|
| id | Deployment Id |
| isDelete | Default value is true , which will delete the deployment.
If value id false , which will result in Inactivating a deployment. |

Request Body

NA

Response

If successful, this method returns HTTP response code 200.

Examples

- 1. Inactivating a Deployment.

```
DELETE /iothub-manager/v1/deployments/a603893d-3ffd-46c4-ab8c-5d8147d1cfa4?isDelete=false
```

- 1. Deleting a Deployment. `HTTP DELETE /iothub-manager/v1/deployments/a603893d-3ffd-46c4-ab8c-5d8147d1cfa4 ###`
Security Type: OpenID Connect
Flow: implicit
Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Reactivate Deployment

Creates a Device Configuration using the data from the Inactivated deployment targetting the same device group.

Note:

Inactivated Deployments are available for **Reactivating**

Permissions

CreateDeployments permission is required to call this api.

Http Request

```
PUT /iothub-manager/v1/deployments/{id}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|------|---------------------------|
| id | Inactivated Deployment Id |

Request Body

NA

Response

If successful, this method returns HTTP response code 200.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>

Examples

1. Reactivating a Deployment.

```
PUT /iothub-manager/v1/deployments/a603893d-3ffd-46c4-ab8c-5d8147d1cfa4
```




Get Deployment Impacted Devices

Lists the devices which are affected by the Deployment.

Permissions

ReadAll permission is required to call this api.

Http Request

```
POST /iothub-manager/v1/deployments/{id}?isLatest={isLatest}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|----------|---|
| id | Deployment Id |
| isLatest | true will retrieve the data of Devices using the query from request body
false will retrieve the data from devices from storage, since the deployment is not currently impacting the device group. |

Request Body

string representing the query to fetch the devices.

Response

If successful, this method returns DeviceListApiModel in response body

Response Schema

```
{
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "continuationToken": "string",
  "items": [
    {
      "eTag": "string",
      "id": "string",
      "c2DMessageCount": 0,
      "lastActivity": "2020-10-30T02:56:45.592Z",
      "connected": true,
      "enabled": true,
      "lastStatusUpdated": "2020-10-30T02:56:45.592Z",
      "ioTHubHostName": "string",
      "metadata": {
        "additionalProp1": "string",
```

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```

        "additionalProp2": "string",
        "additionalProp3": "string"
    },
    "properties": {
        "reported": {
            "additionalProp1": [
                null
            ],
            "additionalProp2": [
                null
            ],
            "additionalProp3": [
                null
            ]
        },
        "desired": {
            "additionalProp1": [
                null
            ],
            "additionalProp2": [
                null
            ],
            "additionalProp3": [
                null
            ]
        },
        "deviceId": "string",
        "moduleId": "string"
    },
    "tags": {
        "additionalProp1": [
            null
        ],
        "additionalProp2": [
            null
        ],
        "additionalProp3": [
            null
        ]
    },
    "isEdgeDevice": true,
    "isSimulated": true,
    "authentication": {
        "primaryKey": "string",
        "secondaryKey": "string",
        "primaryThumbprint": "string",
        "secondaryThumbprint": "string",
        "authenticationType": 0
    }
}
]
}

```

Sample Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "ETag": "AAAAAAAAAAc=|AAAAAAAAAAc=",
      "Id": "TestDevice",
      "C2DMessageCount": 0,
      "LastActivity": "0001-01-01T00:00:00Z",
      "Connected": false,
      "Enabled": true,
      "LastStatusUpdated": "0001-01-01T00:00:00Z",
      "IoTHubHostName": "iothub-209d7f79.azure-devices.net",
      "$metadata": {
        "$type": "Device;1",
        "$uri": "/v1/devices/TestDevice",
        "$twin_uri": "/v1/devices/TestDevice/twin"
      },
      "Properties": {
        "Reported": {},
        "Desired": {
          "softwareConfig": {
            "softwareName": "Firmware",
            "version": "1.0.0",
            "softwareURL": "https://TestPackageUrl",
            "fileName": "SW1Package.json",
            "serialNumber": "",
            "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
          }
        },
        "DeviceId": "",
        "ModuleId": ""
      },
      "Tags": {
        "TestDevice": "Yes"
      },
      "IsEdgeDevice": true,
      "IsSimulated": false,
      "Authentication": {
        "AuthenticationType": 0
      }
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Examples

1. Get Impacted devices for the current active deployment.

```
POST iothubmanager/v1/deployments/devices/cb5a32d0-57dd-4ec2-ab64-1c20efbd8b02?isLatest=true
```

Request Body

```
"deviceId IN ['TestDevice']"
```

Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "ETag": "AAAAAAAAAAc=|\\"0000b5a5-0000-0300-0000-5f9a875d0000\\"",
      "Id": "TestDevice",
      "C2DMessageCount": 0,
      "LastActivity": "0001-01-01T00:00:00Z",
      "Connected": false,
      "Enabled": true,
      "LastStatusUpdated": "0001-01-01T00:00:00Z",
      "IoTHubHostName": "iothub-209d7f79.azure-devices.net",
      "$metadata": {
        "$type": "Device;1",
        "$uri": "/v1/devices/TestDevice",
        "$twin_uri": "/v1/devices/TestDevice/twin"
      },
      "Properties": {
        "Reported": {},
        "Desired": {
          "softwareConfig": {
            "softwareName": "Firmware",
            "version": "1.0.0",
            "softwareURL": "https://TestPackageUrl",
            "fileName": "SW1Package.json",
            "serialNumber": "",
            "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
          }
        },
        "DeviceId": "",
        "ModuleId": ""
      },
      "Tags": {
        "TestDevice": "Yes"
      },
      "IsEdgeDevice": true,
      "IsSimulated": false,
      "Authentication": {
        "AuthenticationType": 0
      }
    }
  ]
}
```

1. Get Impacted devices for the previously active deployment.

```
iothubmanager/v1/deployments/devices/a603893d-3ffd-46c4-ab8c-5d8147d1cfa4?isLatest=false
```

Request Body

```
"deviceId IN ['TestDevice']"
```

Response

```

{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "ETag": "AAAAAAAAAAc=|\\"0000b5a5-0000-0300-0000-5f9a875d0000\\"",
      "Id": "TestDevice",
      "C2DMessageCount": 0,
      "LastActivity": "0001-01-01T00:00:00Z",
      "Connected": false,
      "Enabled": true,
      "LastStatusUpdated": "0001-01-01T00:00:00Z",
      "IoTHubHostName": "iothub-209d7f79.azure-devices.net",
      "$metadata": {
        "$type": "Device;1",
        "$uri": "/v1/devices/TestDevice",
        "$twin_uri": "/v1/devices/TestDevice/twin"
      },
      "Properties": {
        "Reported": {},
        "Desired": {
          "softwareConfig": {
            "softwareName": "Firmware",
            "version": "1.0.0",
            "softwareURL": "https://TestPackageUrl",
            "fileName": "SW1Package.json",
            "serialNumber": "",
            "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
          }
        },
        "DeviceId": "",
        "ModuleId": ""
      },
      "Tags": {
        "TestDevice": "Yes"
      },
      "IsEdgeDevice": true,
      "IsSimulated": false,
      "Authentication": {
        "AuthenticationType": 0
      }
    }
  ]
}

```



Get Deployment Impacted Modules

Lists the Modules which are affected by the Deployment.

Permissions

ReadAll permission is required to call this api.

Http Request

```
POST /iothub-manager/v1/deployments/Modules/{id}?isLatest={isLatest}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|----------|---|
| id | Deployment Id |
| isLatest | true will retrieve the data of Modules using the query from request body
false will retrieve the data from Modules from storage, since the deployment is not currently impacting the device group. |

Request Body

string representing the query to fetch the devices.

Response

If successful, this method returns TwinPropertiesListApiModel in response body

Response Schema

```
{
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "continuationToken": "string",
  "items": [
    {
      "reported": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "desired": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "deviceId": "string",
      "moduleId": "string"
    }
  ]
}
```

Sample Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "Reported": {},
      "Desired": {
        "schemaVersion": "2.0",
        "runtime": {
          "type": "docker",
          "settings": {
            "loggingOptions": "",
            "minDockerVersion": "v1.25"
          }
        },
        "systemModules": {
          "edgeAgent": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-agent:1.0",
              "createOptions": "{}"
            }
          },
          "edgeHub": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-hub:1.0",
              "createOptions": "{}"
            },
            "status": "running",
            "restartPolicy": "always"
          }
        },
        "modules": {}
      },
      "DeviceId": "Test0903",
      "ModuleId": "$edgeAgent"
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Examples

1. Get Impacted Modules for the current active deployment.

```
POST iothubmanager/v1/deployments/modules/5253c096-b56b-49d2-b230-61b7fcd0f0aa?isLatest=true
```

Request Body

```
"deviceId IN ['TestDevice'] AND moduleId = '$edgeAgent'"
```

Response


```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "Reported": {},
      "Desired": {
        "schemaVersion": "2.0",
        "runtime": {
          "type": "docker",
          "settings": {
            "loggingOptions": "",
            "minDockerVersion": "v1.25"
          }
        },
        "systemModules": {
          "edgeAgent": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-agent:1.0",
              "createOptions": "{}"
            }
          },
          "edgeHub": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-hub:1.0",
              "createOptions": "{}"
            },
            "status": "running",
            "restartPolicy": "always"
          }
        },
        "modules": {}
      },
      "DeviceId": "TestDevice",
      "ModuleId": "$edgeAgent"
    }
  ]
}
```

1. Get Impacted devices for the previously active deployment.

```
POST iothubmanager/v1/deployments/modules/5253c096-b56b-49d2-b230-61b7fcd0f0aa?isLatest=false
```

Request Body

```
"deviceId IN ['TestDevice'] AND moduleId = '$edgeAgent'"
```

Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "Reported": {},
      "Desired": {
        "schemaVersion": "2.0",
        "runtime": {
          "type": "docker",
          "settings": {
            "loggingOptions": "",
            "minDockerVersion": "v1.25"
          }
        },
        "systemModules": {
          "edgeAgent": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-agent:1.0",
              "createOptions": "{}"
            }
          },
          "edgeHub": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-hub:1.0",
              "createOptions": "{}"
            },
            "status": "running",
            "restartPolicy": "always"
          }
        },
        "modules": {}
      },
      "DeviceId": "TestDevice",
      "ModuleId": "$edgeAgent"
    }
  ]
}
```



Get Deployment Report

Provides the report of the devices which are impacted by deployment in byte array.

Permissions

ReadAll permission is required to call this api.

Http Request

```
POST /iothub-manager/v1/deployments/Report/{id}?isLatest={isLatest}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|----------|---|
| id | Deployment Id |
| isLatest | true will retrieve the deployment data from IoT Hub
false will retrieve the data from storage, since the deployment is not currently impacting the device group. |

Request Body

NA

Response

If successful, this method returns byte array data.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>



Device Properties

Service: IoT Hub Manager

Operations

| OPERATION | DESCRIPTION |
|---------------------------------------|---|
| Get Device Properties | lists the device properties from DeviceProperties Cache which contains the data from Tags and Reported Properties of the Devices. |



Get Device Properties

API Method that lists the device properties from DeviceProperties Cache which contains the data from Tags and Reported Properties of the Devices.

Permissions

| |
|---------|
| ReadAll |
|---------|

Http Request

| |
|------------------------------|
| GET /iothubmanager/v1/status |
|------------------------------|

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

If successful, this method returns **DevicePropertiesApiModel** object in the response body.

Response Schema

```
{
  "items": [
    "string"
  ],
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Sample Response

```
{
  "Items": [
    "Tags.TestDevice",
    "Tags.Org",
    "Properties.Reported.Protocol",
    "Properties.Reported.SupportedMethods",
    "Properties.Reported.DeviceMethodStatus",
    "Properties.Reported.FirmwareUpdateStatus",
    "Properties.Reported.firmware.currentFwVersion",
    "Properties.Reported.firmware.status",
    "Properties.Reported.firmware.lastFwUpdateStartTime",
    "Properties.Reported.firmware.lastFwUpdateEndTime",
    "Properties.Reported.softwareConfig.version",
    "Properties.Reported.softwareConfig.status"
  ],
  "$metadata": {
    "$type": "DevicePropertyList;1",
    "$url": "/v1/deviceproperties"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Devices

Service: IoT Hub Manager

Operations

| OPERATION | DESCRIPTION |
|--|--|
| Get Devices. | Lists the Devices based on the query conditions. |
| Query Devices. | Lists the Devices based on the query conditions from request body. |
| Get Device. | Retrives the Device data based on the DeviceId. |
| Get Device Deployment History. | Retrieves the DeviceTwins properties from the Deployment Impacted Devices collection for the device. |
| Create Device. | Creates an IoT or Edge Device in IoT Hub. |
| Update Device. | Updates the device data. |
| Delete Device | Deletes the device. |
| Invoke Device Method. | Invokes a direct method on Device using a payload |
| Send CloudToDevice Message. | Sends messages to Device from IoT Hub to trigger actions. |
| Get Device Files. | Lists the file urls uploaded by the Device. |



Get Devices

Lists the Devices based on the query conditions.

Permissions

ReadAll permission is required to call this api.

Http Request

GET /iothub-manager/v1/devices?query={query}

Request Headers

| HEADER | VALUE |
|-------------------|--|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |
| x-ms-continuation | Continuation Token from response of previous request,if request is called to get next dataset. |

Query Params

| NAME | VALUE |
|-------|--|
| query | URL encoded string from Conditions to query devices. |

Request Body

NA

Response

If successful, this method returns DeviceListApiModel object in the response body.

Response Schema


```

{
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "continuationToken": "string",
  "items": [
    {
      "eTag": "string",
      "id": "string",
      "c2DMessageCount": 0,
      "lastActivity": "2020-10-30T04:20:41.681Z",
      "connected": true,
      "enabled": true,
      "lastStatusUpdated": "2020-10-30T04:20:41.681Z",
      "ioTHubHostName": "string",
      "metadata": {
        "additionalProp1": "string",
        "additionalProp2": "string",
        "additionalProp3": "string"
      },
      "properties": {
        "reported": {
          "additionalProp1": [
            null
          ],
          "additionalProp2": [
            null
          ],
          "additionalProp3": [
            null
          ]
        },
        "desired": {
          "additionalProp1": [
            null
          ],
          "additionalProp2": [
            null
          ],
          "additionalProp3": [
            null
          ]
        },
        "deviceId": "string",
        "moduleId": "string"
      },
      "tags": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "isEdgeDevice": true,
      "isSimulated": true,
      "authentication": {
        "primaryKey": "string",
        "secondaryKey": "string",
        "primaryThumbprint": "string",
        "secondaryThumbprint": "string",
        "authenticationType": 0
      }
    }
  ]
}

```

Sample Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "ETag": "AAAAAAAAAAc=|AAAAAAAAAAc=",
      "Id": "TestDevice",
      "C2DMessageCount": 1,
      "LastActivity": "0001-01-01T00:00:00Z",
      "Connected": false,
      "Enabled": true,
      "LastStatusUpdated": "0001-01-01T00:00:00Z",
      "IoTHubHostName": "iothub-209d7f79.azure-devices.net",
      "$metadata": {
        "$type": "Device;1",
        "$uri": "/v1/devices/TestDevice",
        "$twin_uri": "/v1/devices/TestDevice/twin"
      },
      "Properties": {
        "Reported": {},
        "Desired": {
          "softwareConfig": {
            "softwareName": "Firmware",
            "version": "1.0.0",
            "softwareURL": "https://TestPackageUrl",
            "fileName": "SW1Package.json",
            "serialNumber": "",
            "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
          }
        },
        "DeviceId": "",
        "ModuleId": ""
      },
      "Tags": {
        "TestDevice": "Yes"
      },
      "IsEdgeDevice": true,
      "IsSimulated": false,
      "Authentication": {
        "AuthenticationType": 0
      }
    }
  ]
}
```

Security

Type: OpenID Connect
Flow: implicit
Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Examples

- 1. Get Devices for a Device Group

GET /iothubmanager/v1/devices?query=%5B%7B%22key%22%3A%22Tags.TestDevice%22%2C%22operator%22%3A%22EQ%22%2C%22value%22%3A%22Yes%22%7D%5D

Query String Data

| CONDITIONS | ENCODED STRING |
|---|---|
| [{"key":"Tags.TestDevice","operator":"EQ","value":"Yes"}] | %5B%7B%22key%22%3A%22Tags.TestDevice%22%2C%22operator%22%3A%22EQ%22%2C%22value%22%3A%22Yes%22%7D%5D |

Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "ETag": "AAAAAAAAAAc=|AAAAAAAAAAc=",
      "Id": "TestDevice",
      "C2DMessageCount": 1,
      "LastActivity": "0001-01-01T00:00:00Z",
      "Connected": false,
      "Enabled": true,
      "LastStatusUpdated": "0001-01-01T00:00:00Z",
      "IoTHubHostName": "iothub-209d7f79.azure-devices.net",
      "$metadata": {
        "$type": "Device;1",
        "$uri": "/v1/devices/TestDevice",
        "$twin_uri": "/v1/devices/TestDevice/twin"
      },
      "Properties": {
        "Reported": {},
        "Desired": {
          "softwareConfig": {
            "softwareName": "Firmware",
            "version": "1.0.0",
            "softwareURL": "https://TestPackageUrl",
            "fileName": "SW1Package.json",
            "serialNumber": "",
            "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
          }
        },
        "DeviceId": "",
        "ModuleId": ""
      },
      "Tags": {
        "TestDevice": "Yes"
      },
      "IsEdgeDevice": true,
      "IsSimulated": false,
      "Authentication": {
        "AuthenticationType": 0
      }
    }
  ]
}
```



Query Devices

Lists the Devices based on the query conditions from request body.

Permissions

ReadAll permission is required to call this api.

Http Request

| |
|---------------------------------------|
| POST /iothub-manager/v1/devices/query |
|---------------------------------------|

Request Headers

| HEADER | VALUE |
|-------------------|--|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |
| x-ms-continuation | Continuation Token from response of previous request,if request is called to get next dataset. |

Request Body

JSON serialized string representing the conditions to fetch the devices.

Response

If successful, this method returns DeviceListApiModel object in the response body.

Response Schema

```

{
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "continuationToken": "string",
  "items": [
    {
      "eTag": "string",
      "id": "string",
      "c2DMessageCount": 0,
      "lastActivity": "2020-10-30T04:20:41.681Z",
      "connected": true,
      "enabled": true,
      "lastStatusUpdated": "2020-10-30T04:20:41.681Z",
      "ioTHubHostName": "string",
      "metadata": {
        "additionalProp1": "string",
        "additionalProp2": "string",
        "additionalProp3": "string"
      },
      "properties": {
        "reported": {
          "additionalProp1": [
            null
          ],
          "additionalProp2": [
            null
          ],
          "additionalProp3": [
            null
          ]
        },
        "desired": {
          "additionalProp1": [
            null
          ],
          "additionalProp2": [
            null
          ],
          "additionalProp3": [
            null
          ]
        },
        "deviceId": "string",
        "moduleId": "string"
      },
      "tags": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "isEdgeDevice": true,
      "isSimulated": true,
      "authentication": {
        "primaryKey": "string",
        "secondaryKey": "string",
        "primaryThumbprint": "string",
        "secondaryThumbprint": "string",
        "authenticationType": 0
      }
    }
  ]
}

```

Sample Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "ETag": "AAAAAAAAAAc=|AAAAAAAAAAc=",
      "Id": "TestDevice",
      "C2DMessageCount": 1,
      "LastActivity": "0001-01-01T00:00:00Z",
      "Connected": false,
      "Enabled": true,
      "LastStatusUpdated": "0001-01-01T00:00:00Z",
      "IoTHubHostName": "iothub-209d7f79.azure-devices.net",
      "$metadata": {
        "$type": "Device;1",
        "$uri": "/v1/devices/TestDevice",
        "$twin_uri": "/v1/devices/TestDevice/twin"
      },
      "Properties": {
        "Reported": {},
        "Desired": {
          "softwareConfig": {
            "softwareName": "Firmware",
            "version": "1.0.0",
            "softwareURL": "https://TestPackageUrl",
            "fileName": "SW1Package.json",
            "serialNumber": "",
            "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
          }
        },
        "DeviceId": "",
        "ModuleId": ""
      },
      "Tags": {
        "TestDevice": "Yes"
      },
      "IsEdgeDevice": true,
      "IsSimulated": false,
      "Authentication": {
        "AuthenticationType": 0
      }
    }
  ]
}
```

Security

Type: OpenID Connect
Flow: implicit
Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>

Examples

- 1. Get Devices based on Device Group Conditions

POST /iothub-manager/v1/devices/query

Request Body

```
"[{\"key\": \"Tags.TestDevice\", \"operator\": \"EQ\", \"value\": \"Yes\"}]\"
```

Reference: Device Group Conditions as Request body.

| CONDITIONS | JSON SERIALIZED DATA |
|---|---|
| <code>[{"key": "Tags.TestDevice", "operator": "EQ", "value": "Yes"}]</code> | <code>[{"key\\": \"Tags.TestDevice\\", \"operator\\\": \"EQ\\", \"value\\\": \"Yes\\\"}]</code> |

```

### Response
```json
{
 "$metadata": {
 "$type": "DeviceList;1",
 "$uri": "/v1/devices"
 },
 "ContinuationToken": null,
 "Items": [
 {
 "ETag": "AAAAAAAAAAc=|AAAAAAAAAAc=",
 "Id": "TestDevice",
 "C2DMessageCount": 0,
 "LastActivity": "0001-01-01T00:00:00Z",
 "Connected": false,
 "Enabled": true,
 "LastStatusUpdated": "0001-01-01T00:00:00Z",
 "IoTHubHostName": "iothub-209d7f79.azure-devices.net",
 "$metadata": {
 "$type": "Device;1",
 "$uri": "/v1/devices/TestDevice",
 "$twin_uri": "/v1/devices/TestDevice/twin"
 },
 "Properties": {
 "Reported": {},
 "Desired": {
 "softwareConfig": {
 "softwareName": "Firmware",
 "version": "1.0.0",
 "softwareURL": "https://testpackageurl",
 "fileName": "SW1Package.json",
 "serialNumber": "",
 "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
 }
 },
 "DeviceId": "",
 "ModuleId": ""
 },
 "Tags": {
 "TestDevice": "Yes"
 },
 "IsEdgeDevice": true,
 "IsSimulated": false,
 "Authentication": {
 "AuthenticationType": 0
 }
 }
]
}
```

```

1. Get Devices based on DeviceIds

```
POST /iothub-manager/v1/devices/query
```

Request Body

```
"deviceId IN ['TestDevice']"
```

Response

```

{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "ETag": "AAAAAAAAAAI=|AAAAAAAAAAI=",
      "Id": "TestDevice",
      "C2DMessageCount": 0,
      "LastActivity": "0001-01-01T00:00:00Z",
      "Connected": false,
      "Enabled": true,
      "LastStatusUpdated": "0001-01-01T00:00:00Z",
      "IoTHubHostName": "iothub-233a1ca2.azure-devices.net",
      "$metadata": {
        "$type": "Device;1",
        "$uri": "/v1/devices/TestDevice",
        "$twin_uri": "/v1/devices/TestDevice/twin"
      },
      "Properties": {
        "Reported": {},
        "Desired": {
          "softwareConfig": {
            "softwareName": "Firmware",
            "version": "1.0.0",
            "softwareURL": "https://testpackageurl",
            "fileName": "SW1Package.json",
            "serialNumber": "",
            "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
          }
        },
        "DeviceId": "",
        "ModuleId": ""
      },
      "Tags": {},
      "IsEdgeDevice": false,
      "IsSimulated": false,
      "Authentication": {
        "AuthenticationType": 0
      }
    }
  ]
}

```




Get Device

Retrives the Device data based on the DeviceId.

Permissions

ReadAll permission is required to call this api.

Http Request

```
GET /iothub-manager/v1/devices/{id}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|------|-----------|
| id | Device Id |

Request Body

NA

Response

If successful, this method returns **DeviceRegistryApiModel** object in the response body.

Response Schema

```

{
  "eTag": "string",
  "id": "string",
  "c2DMessageCount": 0,
  "lastActivity": "2020-10-30T05:16:15.047Z",
  "connected": true,
  "enabled": true,
  "lastStatusUpdated": "2020-10-30T05:16:15.047Z",
  "ioTHubHostName": "string",
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "properties": {
    "reported": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "desired": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "deviceId": "string",
    "moduleId": "string"
  },
  "tags": {
    "additionalProp1": [
      null
    ],
    "additionalProp2": [
      null
    ],
    "additionalProp3": [
      null
    ]
  },
  "isEdgeDevice": true,
  "isSimulated": true,
  "authentication": {
    "primaryKey": "string",
    "secondaryKey": "string",
    "primaryThumbprint": "string",
    "secondaryThumbprint": "string",
    "authenticationType": 0
  }
}

```

Sample Response

```
{
  "ETag": "\"NTU4MTc1Mjcw\"|AAAAAAAAAAc=",
  "Id": "TestDevice",
  "C2DMessageCount": 0,
  "LastActivity": "0001-01-01T00:00:00Z",
  "Connected": false,
  "Enabled": true,
  "LastStatusUpdated": "0001-01-01T00:00:00Z",
  "IoTHubHostName": "iothub-209d7f79.azure-devices.net",
  "$metadata": {
    "$type": "Device;1",
    "$uri": "/v1/devices/TestDevice",
    "$twin_uri": "/v1/devices/TestDevice/twin"
  },
  "Properties": {
    "Reported": {},
    "Desired": {
      "softwareConfig": {
        "softwareName": "Firmware",
        "version": "1.0.0",
        "softwareURL": "https://testpackageurl",
        "fileName": "SW1Package.json",
        "serialNumber": "",
        "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
      }
    },
    "DeviceId": "",
    "ModuleId": ""
  },
  "Tags": {
    "TestDevice": "Yes"
  },
  "IsEdgeDevice": true,
  "IsSimulated": false,
  "Authentication": {
    "PrimaryKey": "raNhoHDRAWE9w7VwiSEitlc2CBNJUwhN/d/96AIJB84=",
    "SecondaryKey": "5OWFNATivex9vTIbBuSQm99QNZ+jWwkIGEjQrajFIK0=",
    "AuthenticationType": 0
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Example

1. Get Device Details using DeviceId

```
GET iothubmanager/v1/Devices/TestDevice
```

Response

```
{
  "ETag": "\"NTU4MTc1Mjcw\"|AAAAAAAAAAc=",
  "Id": "TestDevice",
  "C2DMessageCount": 0,
  "LastActivity": "0001-01-01T00:00:00Z",
  "Connected": false,
  "Enabled": true,
  "LastStatusUpdated": "0001-01-01T00:00:00Z",
  "IoTHubHostName": "iothub-209d7f79.azure-devices.net",
  "$metadata": {
    "$type": "Device;1",
    "$uri": "/v1/devices/TestDevice",
    "$twin_uri": "/v1/devices/TestDevice/twin"
  },
  "Properties": {
    "Reported": {},
    "Desired": {
      "softwareConfig": {
        "softwareName": "Firmware",
        "version": "1.0.0",
        "softwareURL": "https://testpackageurl",
        "fileName": "SW1Package.json",
        "serialNumber": "",
        "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
      }
    },
    "DeviceId": "",
    "ModuleId": ""
  },
  "Tags": {
    "TestDevice": "Yes"
  },
  "IsEdgeDevice": true,
  "IsSimulated": false,
  "Authentication": {
    "PrimaryKey": "raNhoHDRAWE9w7VwiSEitlc2CBNJUwhN/d/96AIJB84=",
    "SecondaryKey": "5OWFNATivex9vTIbBuSQm99QNZ+jWwkIGEjQrajFIK0=",
    "AuthenticationType": 0
  }
}
```



Get Device Deployment History

Retrieves the DeviceTwins properties from the Deployment Impacted Devices collection for the device.

Permissions

ReadAll permission is required to call this api.

Http Request

```
GET /iothub-manager/v1/devices/deploymentHistory/{id}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|------|-----------|
| id | Device Id |

Request Body

NA

Response

If successful, this method returns **TwinPropertiesListApiModel** object in the response body.

Response Schema

```
{
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "continuationToken": "string",
  "items": [
    {
      "reported": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "desired": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "deviceId": "string",
      "moduleId": "string"
    }
  ]
}
```

Sample Response

```

{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "Reported": {
        "firmware": {
          "currentFwVersion": "3.0.2",
          "status": "Current",
          "lastFwUpdateStartTime": "2020-09-16T16:30:21.5586691Z",
          "lastFwUpdateEndTime": "2020-09-16T16:30:22.5586691Z"
        }
      },
      "Desired": {
        "softwareConfig": {
          "softwareName": "Firmware",
          "version": "3.0.0",
          "softwareURL": "https://testpackageurl",
          "fileName": "SW2Package.json",
          "serialNumber": "",
          "checksum": "b01e454d79de5b07a3fe41ae30f77193f02e0e47"
        }
      },
      "DeviceId": "TestDevice"
    },
    {
      "Reported": {
        "firmware": {
          "currentFwVersion": "3.0.0",
          "status": "Current",
          "lastFwUpdateStartTime": "2020-09-16T15:20:21.5586691Z",
          "lastFwUpdateEndTime": "2020-09-16T15:20:22.5586691Z"
        }
      },
      "Desired": {
        "softwareConfig": {
          "softwareName": "Firmware",
          "version": "3.0.0",
          "softwareURL": "https://testpackageurl",
          "fileName": "SW2Package.json",
          "serialNumber": "",
          "checksum": "b01e454d79de5b07a3fe41ae30f77193f02e0e47"
        }
      },
      "DeviceId": "TestDevice"
    }
  ]
}

```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Example

1. Get Deployment History for a DeviceId

```
GET iothubmanager/v1/Devices/deploymenthistory/TestDevice
```

Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "Reported": {
        "firmware": {
          "currentFwVersion": "3.0.2",
          "status": "Current",
          "lastFwUpdateStartTime": "2020-09-16T16:30:21.5586691Z",
          "lastFwUpdateEndTime": "2020-09-16T16:30:22.5586691Z"
        }
      },
      "Desired": {
        "softwareConfig": {
          "softwareName": "Firmware",
          "version": "3.0.0",
          "softwareURL": "https://testpackageurl",
          "fileName": "SW2Package.json",
          "serialNumber": "",
          "checksum": "b01e454d79de5b07a3fe41ae30f77193f02e0e47"
        }
      },
      "DeviceId": "TestDevice"
    },
    {
      "Reported": {
        "firmware": {
          "currentFwVersion": "3.0.0",
          "status": "Current",
          "lastFwUpdateStartTime": "2020-09-16T15:20:21.5586691Z",
          "lastFwUpdateEndTime": "2020-09-16T15:20:22.5586691Z"
        }
      },
      "Desired": {
        "softwareConfig": {
          "softwareName": "Firmware",
          "version": "3.0.0",
          "softwareURL": "https://testpackageurl",
          "fileName": "SW2Package.json",
          "serialNumber": "",
          "checksum": "b01e454d79de5b07a3fe41ae30f77193f02e0e47"
        }
      },
      "DeviceId": "TestDevice"
    }
  ]
}
```




Create Device

Creates an IoT or Edge Device in IoT Hub.

Permissions

CreateDevices permission is required to call this api.

Http Request

```
POST /iothub-manager/v1/devices
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Schema

```

{
  "eTag": "string",
  "id": "string",
  "c2DMessageCount": 0,
  "lastActivity": "2020-10-30T05:41:54.391Z",
  "connected": true,
  "enabled": true,
  "lastStatusUpdated": "2020-10-30T05:41:54.391Z",
  "ioTHubHostName": "string",
  "properties": {
    "reported": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "desired": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "deviceId": "string",
    "moduleId": "string"
  },
  "tags": {
    "additionalProp1": [
      null
    ],
    "additionalProp2": [
      null
    ],
    "additionalProp3": [
      null
    ]
  },
  "isEdgeDevice": true,
  "isSimulated": true,
  "authentication": {
    "primaryKey": "string",
    "secondaryKey": "string",
    "primaryThumbprint": "string",
    "secondaryThumbprint": "string",
    "authenticationType": 0
  }
}

```

Request Body

In the request body, supply a JSON representation of DeviceRegistryApiModel object.

Response

If successful, this method returns **DeviceRegistryApiModel** object in the response body.

Response Schema

```
{
  "eTag": "string",
  "id": "string",
  "c2DMessageCount": 0,
  "lastActivity": "2020-10-30T05:41:54.391Z",
  "connected": true,
  "enabled": true,
  "lastStatusUpdated": "2020-10-30T05:41:54.391Z",
  "ioTHubHostName": "string",
  "properties": {
    "reported": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "desired": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "deviceId": "string",
    "moduleId": "string"
  },
  "tags": {
    "additionalProp1": [
      null
    ],
    "additionalProp2": [
      null
    ],
    "additionalProp3": [
      null
    ]
  },
  "isEdgeDevice": true,
  "isSimulated": true,
  "authentication": {
    "primaryKey": "string",
    "secondaryKey": "string",
    "primaryThumbprint": "string",
    "secondaryThumbprint": "string",
    "authenticationType": 0
  }
}
```

Sample Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "ETag": "AAAAAAAAAYc=|AAAAAAAAAYc=",
      "Id": "TestDevice",
      "C2DMessageCount": 0,
      "LastActivity": "0001-01-01T00:00:00Z",
      "Connected": false,
      "Enabled": true,
      "LastStatusUpdated": "0001-01-01T00:00:00Z",
      "IoTHubHostName": "iothub-233a1ca2.azure-devices.net",
      "$metadata": {
        "$type": "Device;1",
        "$uri": "/v1/devices/TestDevice",
        "$twin_uri": "/v1/devices/TestDevice/twin"
      },
      "Properties": {
        "Reported": {},
        "Desired": {
          "softwareConfig": {
            "softwareName": "Firmware",
            "version": "1.0.0",
            "softwareURL": "https://testpackageurl",
            "fileName": "SW1Package.json",
            "serialNumber": "",
            "checksum": "16b557cb7b4828cefe71b9a9fdadb534bdce6089"
          }
        },
        "DeviceId": "",
        "ModuleId": ""
      },
      "Tags": {
        "TestDevice": "Yes"
      },
      "IsEdgeDevice": true,
      "IsSimulated": false,
      "Authentication": {
        "AuthenticationType": 0
      }
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Example

1. Create Device with auto generated authentication keys.

```
POST /iothubmanager/v1/devices
```

Request

```
{
  "Id": "TestDevice",
  "IsEdgeDevice": false,
  "IsSimulated": false,
  "Enabled": true,
  "Authentication": {}
}
```

Response

```
{
  "ETag": "\"Mjk1MTYxMjc5\"|AAAAAAAAAAE=",
  "Id": "TestDevice",
  "C2DMessageCount": 0,
  "LastActivity": "0001-01-01T00:00:00",
  "Connected": false,
  "Enabled": true,
  "LastStatusUpdated": "0001-01-01T00:00:00",
  "IoTHubHostName": "iothub-233a1ca2.azure-devices.net",
  "$metadata": {
    "$type": "Device;1",
    "$uri": "/v1/devices/TestDevice",
    "$twin_uri": "/v1/devices/TestDevice/twin"
  },
  "Properties": {
    "Reported": {},
    "Desired": {},
    "DeviceId": "",
    "ModuleId": ""
  },
  "Tags": {},
  "IsEdgeDevice": false,
  "IsSimulated": false,
  "Authentication": {
    "PrimaryKey": "hTN/qqE3aTC0Cy8yTV4GroI9gjTwXMM05vpAtPA/D7Y=",
    "SecondaryKey": "nUe22sk90wW+IDgkrIewLU4iEmWnOwJhNxxlYx+W06U=",
    "AuthenticationType": 0
  }
}
```

2. Create Device with authentication keys.

```
POST /iothubmanager/v1/devices
```

Request

```
{
  "Id": "TestDevice",
  "IsEdgeDevice": false,
  "IsSimulated": false,
  "Enabled": true,
  "Authentication": {
    "AuthenticationType": 0,
    "PrimaryKey": "wpVpDAwhmLmL27+Mb09T3AVTmFv69D28LEP+xN7vTKA=",
    "SecondaryKey": "xzCw4ZfP6dig/NDUzeNxeHvpmYU4ydpkqyDnFeG2SEI=",
    "PrimaryThumbprint": null,
    "SecondaryThumbprint": null
  }
}
```

Response

```
{
  "ETag": "\"NDE1MjQ3OTMx\"|AAAAAAAAAAE=",
  "Id": "TestDevice",
  "C2DMessageCount": 0,
  "LastActivity": "0001-01-01T00:00:00",
  "Connected": false,
  "Enabled": true,
  "LastStatusUpdated": "0001-01-01T00:00:00",
  "IoTHubHostName": "iothub-233a1ca2.azure-devices.net",
  "$metadata": {
    "$type": "Device;1",
    "$uri": "/v1/devices/TestDevice",
    "$twin_uri": "/v1/devices/TestDevice/twin"
  },
  "Properties": {
    "Reported": {},
    "Desired": {},
    "DeviceId": "",
    "ModuleId": ""
  },
  "Tags": {},
  "IsEdgeDevice": false,
  "IsSimulated": false,
  "Authentication": {
    "PrimaryKey": "wpVpDAwhmLmL27+Mb09T3AVTmFv69D28LEP+xN7vTKA=",
    "SecondaryKey": "xzCw4ZfP6dig/NDUzeNxeHvpmYU4ydpkqyDnFeG2SEI=",
    "AuthenticationType": 0
  }
}
```



Update Device

Updates the device data.

Permissions

UpdateDevices permission is required to call this api.

Http Request

```
PUT /iothub-manager/v1/devices/{id}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|------|-----------|
| id | Device Id |

Request Schema

```

{
  "eTag": "string",
  "id": "string",
  "c2DMessageCount": 0,
  "lastActivity": "2020-10-30T05:41:54.391Z",
  "connected": true,
  "enabled": true,
  "lastStatusUpdated": "2020-10-30T05:41:54.391Z",
  "ioTHubHostName": "string",
  "properties": {
    "reported": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "desired": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "deviceId": "string",
    "moduleId": "string"
  },
  "tags": {
    "additionalProp1": [
      null
    ],
    "additionalProp2": [
      null
    ],
    "additionalProp3": [
      null
    ]
  },
  "isEdgeDevice": true,
  "isSimulated": true,
  "authentication": {
    "primaryKey": "string",
    "secondaryKey": "string",
    "primaryThumbprint": "string",
    "secondaryThumbprint": "string",
    "authenticationType": 0
  }
}

```

Request Body

In the request body, supply a JSON representation of **DeviceRegistryApiModel** object.

Response

If successful, this method returns **DeviceRegistryApiModel** object in the response body.

Response Schema

```
{
  "eTag": "string",
  "id": "string",
  "c2DMessageCount": 0,
  "lastActivity": "2020-10-30T05:41:54.391Z",
  "connected": true,
  "enabled": true,
  "lastStatusUpdated": "2020-10-30T05:41:54.391Z",
  "ioTHubHostName": "string",
  "properties": {
    "reported": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "desired": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "deviceId": "string",
    "moduleId": "string"
  },
  "tags": {
    "additionalProp1": [
      null
    ],
    "additionalProp2": [
      null
    ],
    "additionalProp3": [
      null
    ]
  },
  "isEdgeDevice": true,
  "isSimulated": true,
  "authentication": {
    "primaryKey": "string",
    "secondaryKey": "string",
    "primaryThumbprint": "string",
    "secondaryThumbprint": "string",
    "authenticationType": 0
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Delete Device

Used to delete device.

Permissions

DeleteDevices permission is required to call this api.

Http Request

```
DELETE /iothub-manager/v1/devices/{id}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|------|-----------|
| id | Device Id |

Request Body

NA

Response

If successful, this method returns 200 success reponse.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Examples

- 1. Delete a device using deviceid

```
DELETE /iothub-manager/v1/devices/TestDevice
```

Response

```
200
```



Invoke Device Method

Used to invoke a direct method on Device using a payload.

Permissions

CreateJobs permission is required to call this api.

Http Request

```
POST /iothub-manager/v1/devices/{id}/methods
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|------|-----------|
| id | Device Id |

Request Schema

```
{
  "name": "string",
  "responseTimeout": {},
  "connectionTimeout": {},
  "jsonPayload": "string"
}
```

Request Body

In the request body, supply a JSON representation of **MethodParameterApiModel** object.

Sample Request

```
{
  "Name": "methodName1",
  "JsonPayload": "{TestPayload}"
}
```

Response

If successful, this method returns **MethodResultApiModel** object in the response body.

Response Schema

```
{
  "status": "int",
  "jsonPayload": "string"
}
```

Sample Response

```
{  
  "status": "200",  
  "JsonPayload": "{TestAcknowledgement}"  
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Send CloudToDevice Message

Used to send messages to Device from IoTHub.

Permissions

SendC2DMessages permission is required to call this api.

Http Request

```
POST /iothub-manager/v1/devices/{id}/c2dmessage
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|------|-----------|
| id | Device Id |

Request Body

Any message as string.

Response

If successful, this method returns 200 response code.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>

Examples

- 1. Send message to device.

```
POST iothubmanager/v1/devices/SimulatedDevice/c2dmessage
```

Request Body

```
{"message": "Message to send to device"}
```

Response

```
200
```



Get Device Files

Lists the files uploaded by the Device.

Permissions

ReadAll permission is required to call this api.

Http Request

```
GET /iothub-manager/v1/devices/files/{id}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|------|-----------|
| id | Device Id |

Request Body

NA

Response

If successful, this method returns List of URLs of files in the response body.

Response Schema

```
[
  "string"
]
```

Sample Response

```
[
  "https://testacct.blob.core.windows.net/209d7f79-39aa-4e2a-8e9c-56f04f7633f9-iot-file-upload/TestDevice/myimage1.png?sv=2018-03-28&sr=b&sig=wrCCy%2B22yNf9xeP5hnIgCi2LB3L5tdrx4HbrPhP5L6Q%3D&st=2020-10-31T07%3A05%3A10Z&se=2020-10-31T07%3A10%3A10Z&sp=rw",
  "https://testacct.blob.core.windows.net/209d7f79-39aa-4e2a-8e9c-56f04f7633f9-iot-file-upload/TestDevice/myimage2.png?sv=2018-03-28&sr=b&sig=0HzEu5EUmCUTjbygcVH0W6yASOPTpGgBMVcZIUKSMfE%3D&st=2020-10-31T07%3A05%3A10Z&se=2020-10-31T07%3A10%3A10Z&sp=rw"
]
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Jobs

Service: IoT Hub Manager

Operations

| OPERATION | DESCRIPTION |
|-----------------------------|---|
| Get Jobs. | Lists the jobs from IoT Hub based on timeframe, job type and job status. |
| Get Job. | Gets the details of an job from IoT Hub based on jobid, job status. |
| Create Job. | Creates a Job to add tags, modify properties or invoke methods on selected devices. |



Get Jobs

Lists the jobs from IoTHub based on timeframe, job type and job status.

Permissions

ReadAll permission is required to call this api.

Http Request

```
GET /iothubmanager/v1/jobs?from={from}&to={to}&jobType={jobType}&jobStatus={jobStatus}&pageSize={pageSize}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|-----------|---|
| from | Start Timeframe to consider |
| to | End Timeframe to consider |
| jobType | Unknown = 0
ScheduleDeviceMethod = 3
ScheduleUpdateTwin = 4, |
| jobStatus | Unknown = 0
Enqueued = 1
Running = 2
Completed = 3
Failed = 4
Cancelled = 5
Scheduled = 6
Queued = 7 |
| pageSize | Indicates the no of jobs that page should contains when queried from IoTHub. Will not impact the end result. |

Request Body

NA

Response

If successful, this method returns **List of JobApiModel** object in the response body.

Response Schema

[
 {
 "jobId": "string",
 "queryCondition": "string",
 },
 ...
]

3M IoT Platform on Azure - © 3M 2020


```
"createdTimeUtc": "2020-10-30T09:24:26.223Z",
"startTimeUtc": "2020-10-30T09:24:26.223Z",
"endTimeUtc": "2020-10-30T09:24:26.223Z",
"maxExecutionTimeInSeconds": 0,
"type": 0,
"status": 0,
"methodParameter": {
  "name": "string",
  "responseTimeout": {
    "ticks": 0,
    "days": 0,
    "hours": 0,
    "milliseconds": 0,
    "minutes": 0,
    "seconds": 0,
    "totalDays": 0,
    "totalHours": 0,
    "totalMilliseconds": 0,
    "totalMinutes": 0,
    "totalSeconds": 0
  },
  "connectionTimeout": {
    "ticks": 0,
    "days": 0,
    "hours": 0,
    "milliseconds": 0,
    "minutes": 0,
    "seconds": 0,
    "totalDays": 0,
    "totalHours": 0,
    "totalMilliseconds": 0,
    "totalMinutes": 0,
    "totalSeconds": 0
  },
  "jsonPayload": "string"
},
"updateTwin": {
  "eTag": "string",
  "deviceId": "string",
  "properties": {
    "reported": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "desired": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "deviceId": "string",
    "moduleId": "string"
  },
}
```

```

    "tags": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "isSimulated": true
  },
  "failureReason": "string",
  "statusMessage": "string",
  "resultStatistics": {
    "deviceCount": 0,
    "failedCount": 0,
    "succeededCount": 0,
    "runningCount": 0,
    "pendingCount": 0
  },
  "devices": [
    {
      "deviceId": "string",
      "status": 0,
      "startTimeUtc": "2020-10-30T09:24:26.223Z",
      "endTimeUtc": "2020-10-30T09:24:26.223Z",
      "createdDateTimeUtc": "2020-10-30T09:24:26.223Z",
      "lastUpdatedDateTimeUtc": "2020-10-30T09:24:26.223Z",
      "outcome": {
        "status": 0,
        "jsonPayload": "string"
      },
      "error": {
        "code": "string",
        "description": "string"
      }
    }
  ]
}
]

```

Sample Response

```
[
  {
    "JobId": "TestDeviceTag-093931a9-3dd0-477f-bce8-e7ebbefde73d",
    "QueryCondition": "deviceId in ['TestDevice']",
    "CreatedTimeUtc": "2020-10-16T08:22:16.2455974Z",
    "StartTimeUtc": "2020-10-16T08:22:16.1110507Z",
    "EndTimeUtc": "2020-10-16T08:22:21.0180671Z",
    "MaxExecutionTimeInSeconds": 3600,
    "Type": 4,
    "Status": 3,
    "UpdateTwin": {
      "ETag": "*",
      "DeviceId": null,
      "Properties": {
        "Reported": {},
        "Desired": {},
        "DeviceId": "",
        "ModuleId": ""
      },
      "Tags": {
        "TestDevice": "Yes"
      },
      "IsSimulated": false
    },
    "ResultStatistics": {
      "DeviceCount": 1,
      "FailedCount": 0,
      "SucceededCount": 1,
      "RunningCount": 0,
      "PendingCount": 0
    }
  },
  {
    "JobId": "SimulatedDeviceTag-627073e2-5c71-4907-8b51-294439e11e0a",
    "QueryCondition": "deviceId in ['SimulatedDevice']",
    "CreatedTimeUtc": "2020-10-16T08:45:59.7788363Z",
    "StartTimeUtc": "2020-10-16T08:45:59.630406Z",
    "EndTimeUtc": "2020-10-16T08:46:05.3843691Z",
    "MaxExecutionTimeInSeconds": 3600,
    "Type": 4,
    "Status": 3,
    "UpdateTwin": {
      "ETag": "*",
      "DeviceId": null,
      "Properties": {
        "Reported": {},
        "Desired": {},
        "DeviceId": "",
        "ModuleId": ""
      },
      "Tags": {
        "Org": "Test"
      },
      "IsSimulated": false
    },
    "ResultStatistics": {
      "DeviceCount": 1,
      "FailedCount": 0,
      "SucceededCount": 1,
      "RunningCount": 0,
      "PendingCount": 0
    }
  }
]
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/csltestab2c.onmicrosoft.com>

Examples

1. Get Jobs based on TimeFrame

```
GET iothubmanager/v1/jobs?from=NOW-P1M&to=NOW
```

2. Get Jobs based on TimeFrame and Job Status

```
GET iothubmanager/v1/jobs?from=NOW-P1M&to=NOW&jobStatus=2
```

3. Get Jobs based on TimeFrame and Job Type

```
GET iothubmanager/v1/jobs?from=NOW-P1M&to=NOW&jobType=4
```

4. Get Jobs based on TimeFrame and Job Status and JobType

```
GET iothubmanager/v1/jobs?from=NOW-P1M&to=NOW&jobStatus=2&jobType=4
```



Create Job

Create a Job to add tags, modify properties or invoke methods on selected devices.

Permissions

CreateJobs permission is required to call this api.

Http Request

POST /iothubmanager/v1/jobs

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Schema

```
{
  "jobId": "string",
  "queryCondition": "string",
  "createdTimeUtc": "2020-10-30T10:21:05.675Z",
  "startTimeUtc": "2020-10-30T10:21:05.675Z",
  "endTimeUtc": "2020-10-30T10:21:05.676Z",
  "maxExecutionTimeInSeconds": 0,
  "type": 0,
  "status": 0,
  "methodParameter": {
    "name": "string",
    "responseTimeout": {},
    "connectionTimeout": {},
    "jsonPayload": "string"
  },
  "updateTwin": {
    "eTag": "string",
    "deviceId": "string",
    "properties": {
      "reported": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "desired": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ]
      }
    }
  }
}
```

```

        "additionalProp3": [
            null
        ]
    },
    "deviceId": "string",
    "moduleId": "string"
},
"tags": {
    "additionalProp1": [
        null
    ],
    "additionalProp2": [
        null
    ],
    "additionalProp3": [
        null
    ]
},
"isSimulated": true
},
"failureReason": "string",
"statusMessage": "string",
"resultStatistics": {
    "deviceCount": 0,
    "failedCount": 0,
    "succeededCount": 0,
    "runningCount": 0,
    "pendingCount": 0
},
"devices": [
    {
        "deviceId": "string",
        "status": 0,
        "startTimeUtc": "2020-10-30T10:21:05.676Z",
        "endTimeUtc": "2020-10-30T10:21:05.676Z",
        "createdDateTimeUtc": "2020-10-30T10:21:05.676Z",
        "lastUpdatedDateTimeUtc": "2020-10-30T10:21:05.676Z",
        "outcome": {
            "status": 0,
            "jsonPayload": "string"
        },
        "error": {
            "code": "string",
            "description": "string"
        }
    }
]
}

```

Request Body

In the request body, supply a JSON representation of **JobApiModel** object.

Response

If successful, this method returns **JobApiModel** object in the response body.

Response Schema

```

{
    "jobId": "string",
    "queryCondition": "string",
    "createdTimeUtc": "2020-10-30T10:21:05.675Z",
    "startTimeUtc": "2020-10-30T10:21:05.675Z",
    "endTimeUtc": "2020-10-30T10:21:05.676Z",
    "maxExecutionTimeInSeconds": 0,

```

```
"type": 0,
"status": 0,
"methodParameter": {
  "name": "string",
  "responseTimeout": {},
  "connectionTimeout": {},
  "jsonPayload": "string"
},
"updateTwin": {
  "eTag": "string",
  "deviceId": "string",
  "properties": {
    "reported": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "desired": {
      "additionalProp1": [
        null
      ],
      "additionalProp2": [
        null
      ],
      "additionalProp3": [
        null
      ]
    },
    "deviceId": "string",
    "moduleId": "string"
  },
  "tags": {
    "additionalProp1": [
      null
    ],
    "additionalProp2": [
      null
    ],
    "additionalProp3": [
      null
    ]
  },
  "isSimulated": true
},
"failureReason": "string",
"statusMessage": "string",
"resultStatistics": {
  "deviceCount": 0,
  "failedCount": 0,
  "succeededCount": 0,
  "runningCount": 0,
  "pendingCount": 0
},
"devices": [
  {
    "deviceId": "string",
    "status": 0,
    "startTimeUtc": "2020-10-30T10:21:05.676Z",
    "endTimeUtc": "2020-10-30T10:21:05.676Z",
```

```

    "createdDateTimeUtc": "2020-10-30T10:21:05.676Z",
    "lastUpdatedDateTimeUtc": "2020-10-30T10:21:05.676Z",
    "outcome": {
      "status": 0,
      "jsonPayload": "string"
    },
    "error": {
      "code": "string",
      "description": "string"
    }
  }
]
}

```

Sample Response

```

{
  "JobId": "Test-c372b74f-0d92-4b5c-9148-524fbaaf4e58",
  "MaxExecutionTimeInSeconds": 0,
  "Type": 4,
  "Status": 7
}

```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Examples

1. Job to update tags of a Device.

Http Request

```
POST /iothubmanager/v1/jobs
```

RequestBody

```

{
  "JobId": "Test-c372b74f-0d92-4b5c-9148-524fbaaf4e58",
  "QueryCondition": "deviceId in ['DemoDevice']",
  "MaxExecutionTimeInSeconds": 0,
  "UpdateTwin": {
    "Tags": {
      "TestTag": "Test"
    }
  }
}

```

Response

```

{
  "JobId": "Test-c372b74f-0d92-4b5c-9148-524fbaaf4e58",
  "MaxExecutionTimeInSeconds": 0,
  "Type": 4,
  "Status": 7
}

```

2. Job to execute direct on devices.

Request


```
{
  "JobId": "Test-c372b74f-0d92-4b5c-9148-524fbaaf4e58",
  "QueryCondition": "deviceId in ['DemoDevice']",
  "MaxExecutionTimeInSeconds": 0,
  "MethodParameter": {
    "Name": "methodName1",
    "JsonPayload": "{TestPayLoad}"
  }
}
```

Response

```
{
  "JobId": "Test-c372b74f-0d92-4b5c-9148-524fbaaf4e58",
  "MaxExecutionTimeInSeconds": 0,
  "Type": 3,
  "Status": 7
}
```



Modules

Service: IoT Hub Manager

Operations

| OPERATION | DESCRIPTION |
|--------------------------------|--|
| Get Modules. | Lists the Modules based on the query conditions. |
| Query Modules. | Lists the Modules based on the query conditions from request body. |
| Get Module. | Gets the Module data based on the DeviceId and ModuleId. |



Get Modules

Lists the Modules based on the query conditions.

Permissions

ReadAll permission is required to call this api.

Http Request

```
GET /iothub-manager/v1/modules?query={query}
```

Request Headers

| HEADER | VALUE |
|-------------------|--|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |
| x-ms-continuation | Continuation Token from response of previous request,if request is called to get next dataset. |

Query Params

| NAME | VALUE |
|-------|--|
| query | URL encoded string from Conditions to query devices. |

Request Body

NA

Response

If successful, this method returns **TwinPropertiesListApiModel** object in the response body.

Response Schema

```
{
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "continuationToken": "string",
  "items": [
    {
      "reported": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "desired": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "deviceId": "string",
      "moduleId": "string"
    }
  ]
}
```

Sample Response

```

{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "Reported": {},
      "Desired": {
        "schemaVersion": "1.0",
        "runtime": {
          "type": "docker",
          "settings": {
            "loggingOptions": "",
            "minDockerVersion": "v1.25"
          }
        },
        "systemModules": {
          "edgeAgent": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-agent:1.0",
              "createOptions": "{}"
            }
          },
          "edgeHub": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-hub:1.0",
              "createOptions": "{}"
            },
            "status": "running",
            "restartPolicy": "always"
          }
        },
        "modules": {}
      },
      "DeviceId": "TestDevice",
      "ModuleId": "$edgeAgent"
    }
  ]
}

```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Examples

1. Get Modules based on query

Http Request

```

GET /iothub-manager/v1/modules?
query=deviceId+IN+%5B%27Test0903%27%5D+AND+moduleId+%3D+%27%24edgeAgent%27

```

Reference: Conditions in Encoded format

| CONDITIONS | URL ENCODED DATA |
|--|---|
| <div>deviceId IN
['TestDevice'] AND
moduleId = '\$edgeAgent'</div> | <div>deviceId+IN+%5B%27TestDevice%27%5D+AND+moduleId+%3D+%27%24edgeAgent%27</div> |

Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "Reported": {},
      "Desired": {
        "schemaVersion": "1.0",
        "runtime": {
          "type": "docker",
          "settings": {
            "loggingOptions": "",
            "minDockerVersion": "v1.25"
          }
        },
        "systemModules": {
          "edgeAgent": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-agent:1.0",
              "createOptions": "{}"
            }
          },
          "edgeHub": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-hub:1.0",
              "createOptions": "{}"
            }
          },
          "status": "running",
          "restartPolicy": "always"
        }
      },
      "modules": {}
    },
    {
      "DeviceId": "TestDevice",
      "ModuleId": "$edgeAgent"
    }
  ]
}
```



Query Modules

Lists the Modules based on the query conditions from request body.

Permissions

ReadAll permission is required to call this api.

Http Request

POST /iothub-manager/v1/modules/query

Request Headers

| HEADER | VALUE |
|-------------------|--|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |
| x-ms-continuation | Continuation Token from response of previous request,if request is called to get next dataset. |

Request Body

String representing conditions to get the modules.

Response

If successful, this method returns **TwinPropertiesListApiModel** object in the response body.

Response Schema

```
{
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  },
  "continuationToken": "string",
  "items": [
    {
      "reported": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "desired": {
        "additionalProp1": [
          null
        ],
        "additionalProp2": [
          null
        ],
        "additionalProp3": [
          null
        ]
      },
      "deviceId": "string",
      "moduleId": "string"
    }
  ]
}
```

Sample Response


```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "Reported": {},
      "Desired": {
        "schemaVersion": "1.0",
        "runtime": {
          "type": "docker",
          "settings": {
            "loggingOptions": "",
            "minDockerVersion": "v1.25"
          }
        },
        "systemModules": {
          "edgeAgent": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-agent:1.0",
              "createOptions": "{}"
            }
          },
          "edgeHub": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-hub:1.0",
              "createOptions": "{}"
            },
            "status": "running",
            "restartPolicy": "always"
          }
        },
        "modules": {}
      },
      "DeviceId": "TestDevice",
      "ModuleId": "$edgeAgent"
    }
  ]
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Examples

1. Get Modules based on query from Request body.

Http Request

```
POST /iothub-manager/v1/modules/query
```

Request Body

```
"deviceId IN ['Test0903'] AND moduleId = '$edgeAgent'"
```

Response

```
{
  "$metadata": {
    "$type": "DeviceList;1",
    "$uri": "/v1/devices"
  },
  "ContinuationToken": null,
  "Items": [
    {
      "Reported": {},
      "Desired": {
        "schemaVersion": "1.0",
        "runtime": {
          "type": "docker",
          "settings": {
            "loggingOptions": "",
            "minDockerVersion": "v1.25"
          }
        },
        "systemModules": {
          "edgeAgent": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-agent:1.0",
              "createOptions": "{}"
            }
          },
          "edgeHub": {
            "type": "docker",
            "settings": {
              "image": "mcr.microsoft.com/azureiotedge-hub:1.0",
              "createOptions": "{}"
            },
            "status": "running",
            "restartPolicy": "always"
          }
        },
        "modules": {}
      },
      "DeviceId": "TestDevice",
      "ModuleId": "$edgeAgent"
    }
  ]
}
```



Get Module

Gets the Module data based on the DeviceId and ModuleId.

Permissions

ReadAll permission is required to call this api.

Http Request

```
GET /iothub-manager/v1/modules/{deviceId}/{moduleId}
```

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | VALUE |
|----------|-------------------------|
| deviceId | DeviceId of Edge Device |
| moduleId | ModuleId |

Request Body

NA

Response

If successful, this method returns **TwinPropertiesApiModel** object in the response body.

Response Schema

```

{
  "reported": {
    "additionalProp1": [
      null
    ],
    "additionalProp2": [
      null
    ],
    "additionalProp3": [
      null
    ]
  },
  "desired": {
    "additionalProp1": [
      null
    ],
    "additionalProp2": [
      null
    ],
    "additionalProp3": [
      null
    ]
  },
  "deviceId": "string",
  "moduleId": "string"
}

```

Sample Response

```

{
  "Reported": {},
  "Desired": {
    "schemaVersion": "1.0",
    "runtime": {
      "type": "docker",
      "settings": {
        "loggingOptions": "",
        "minDockerVersion": "v1.25"
      }
    },
    "systemModules": {
      "edgeAgent": {
        "type": "docker",
        "settings": {
          "image": "mcr.microsoft.com/azureiotedge-agent:1.0",
          "createOptions": "{}"
        }
      },
      "edgeHub": {
        "type": "docker",
        "settings": {
          "image": "mcr.microsoft.com/azureiotedge-hub:1.0",
          "createOptions": "{}"
        },
        "status": "running",
        "restartPolicy": "always"
      }
    },
    "modules": {}
  },
  "DeviceId": "TestDevice",
  "ModuleId": "$edgeAgent"
}

```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>

Examples

1. Get Module Data based on DeviceId and ModuleId

```
GET /iothub-manager/v1/modules/TestDevice/$edgeAgent
```

Response

```
{
  "Reported": {},
  "Desired": {
    "schemaVersion": "1.0",
    "runtime": {
      "type": "docker",
      "settings": {
        "loggingOptions": "",
        "minDockerVersion": "v1.25"
      }
    },
    "systemModules": {
      "edgeAgent": {
        "type": "docker",
        "settings": {
          "image": "mcr.microsoft.com/azureiotedge-agent:1.0",
          "createOptions": "{}"
        }
      },
      "edgeHub": {
        "type": "docker",
        "settings": {
          "image": "mcr.microsoft.com/azureiotedge-hub:1.0",
          "createOptions": "{}"
        },
        "status": "running",
        "restartPolicy": "always"
      }
    },
    "modules": {}
  },
  "DeviceId": "TestDevice",
  "ModuleId": "$edgeAgent"
}
```



Status

Service: IoT Hub Manager

Status Controller provides Health status of the Service and its dependencies.

Operations

| OPERATION | DESCRIPTION |
|-----------------------------|---|
| Get Status | Gets status of the Service and its dependencies |
| Ping Status | Provides the health status of the service. |



Get Status

Provides the status of the IoT Hub Manager Service and its dependencies

Permissions

N/A

Http Request

GET /iothubmanager/v1/status

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

N/A

Response Schema

```
{
  "name": "string",
  "status": {
    "isHealthy": true,
    "message": "string"
  },
  "currentTime": "string",
  "startTime": "string",
  "upTime": 0,
  "uid": "string",
  "properties": {
    "authRequired": true,
    "endpoint": "string"
  },
  "dependencies": {
    "additionalProp1": {
      "isHealthy": true,
      "message": "string"
    },
    "additionalProp2": {
      "isHealthy": true,
      "message": "string"
    },
    "additionalProp3": {
      "isHealthy": true,
      "message": "string"
    }
  },
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Response

```
{
  "Name": "IoTHub Manager",
  "Status": {
    "IsHealthy": true,
    "Message": "Alive and well!"
  },
  "CurrentTime": "2020-10-29T15:48:25+00:00",
  "StartTime": "2020-10-26T23:00:48+00:00",
  "UpTime": 233256,
  "UID": "WebService.c477e657-a941-4a01-82fd-ecc2d6cfaba4",
  "Properties": {
    "authRequired": true,
    "endpoint": "http://+:80"
  },
  "Dependencies": {
    "Storage Adapter": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "User Management": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "App Config": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    }
  },
  "$metadata": {
    "$type": "Status;0",
    "$uri": "/status"
  }
}
```




Ping Status

Provides the health status of the service.

Permissions

N/A

Http Request

GET /iothubmanager/v1/status/ping

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

N/A

Response

Respond with 200 Status code if service is up.



Namespace Mmm.Iot.IoTHubManager.WebService.Controllers

Classes

[DeploymentsController](#)

[DevicePropertiesController](#)

[DevicesController](#)

[JobsController](#)

[ModulesController](#)

[StatusController](#)



Class DeploymentsController

Inheritance

System.Object

DeploymentsController

Namespace: [Mmm.Iot.IoTHubManager.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class DeploymentsController : Controller
```

Constructors

DeploymentsController(IDeployments)

Declaration

```
public DeploymentsController(IDeployments deployments)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|--------------|-------------|-------------|
| IDeployments | deployments | |

Methods

DeleteAsync(String, Boolean)

Declaration

```
public Task DeleteAsync(string id, bool isDelete = true)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|----------|-------------|
| System.String | id | |
| System.Boolean | isDelete | |

Returns

| TYPE | DESCRIPTION |
|-----------------------------|-------------|
| System.Threading.Tasks.Task | |

ExportDeploymentReport(String, Boolean)

Declaration

```
public Task<IActionResult> ExportDeploymentReport(string id, bool isLatest = true)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|----------|-------------|
| System.String | id | |
| System.Boolean | isLatest | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<IActionResult> | |

GetAsync()

Declaration

```
public Task<DeploymentListApiModel> GetAsync()
```

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DeploymentListApiModel> | |

GetAsync(String, Boolean, Boolean)

Declaration

```
public Task<DeploymentApiModel> GetAsync(string id, bool includeDeviceStatus = false, bool isLatest = true)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|---------------------|-------------|
| System.String | id | |
| System.Boolean | includeDeviceStatus | |
| System.Boolean | isLatest | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DeploymentApiModel> | |

GetDeploymentImpactedDevices(String, String, Boolean)

Declaration

```
public Task<DeviceListApiModel> GetDeploymentImpactedDevices(string id, string query, bool isLatest = false)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |
| | | |

| TYPE | NAME | DESCRIPTION |
|----------------|----------|-------------|
| System.String | query | |
| System.Boolean | isLatest | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DeviceListApiModel> | |

GetDeploymentImpactedEdgeModules(String, String, Boolean)

Declaration

```
public Task<TwinPropertiesListApiModel> GetDeploymentImpactedEdgeModules(string id, string query, bool isLatest = false)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|----------|-------------|
| System.String | id | |
| System.String | query | |
| System.Boolean | isLatest | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<TwinPropertiesListApiModel> | |

PostAsync(DeploymentApiModel)

Declaration

```
public Task<DeploymentApiModel> PostAsync(DeploymentApiModel deployment)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|--------------------|------------|-------------|
| DeploymentApiModel | deployment | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DeploymentApiModel> | |

ReactivateAsync(String)

Declaration

```
public Task ReactivateAsync(string id)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |

Returns

| TYPE | DESCRIPTION |
|-----------------------------|-------------|
| System.Threading.Tasks.Task | |



Class DevicePropertiesController

Inheritance

System.Object

DevicePropertiesController

Namespace: [Mmm.Iot.IoTHubManager.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class DevicePropertiesController : Controller
```

Constructors

DevicePropertiesController(IDeviceProperties)

Declaration

```
public DevicePropertiesController(IDeviceProperties deviceProperties)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------|------------------|-------------|
| IDeviceProperties | deviceProperties | |

Methods

GetAsync()

Declaration

```
public Task<DevicePropertiesApiModel> GetAsync()
```

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DevicePropertiesApiModel> | |



Class DevicesController

Inheritance

System.Object

DevicesController

Namespace: [Mmm.Iot.IoTHubManager.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class DevicesController : Controller
```

Constructors

DevicesController(IDevices, IDeviceService, IDeviceProperties)

Declaration

```
public DevicesController(IDevices devices, IDeviceService deviceService, IDeviceProperties deviceProperties)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------|------------------|-------------|
| IDevices | devices | |
| IDeviceService | deviceService | |
| IDeviceProperties | deviceProperties | |

Methods

DeleteAsync(String)

Declaration

```
public Task DeleteAsync(string id)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |

Returns

| TYPE | DESCRIPTION |
|-----------------------------|-------------|
| System.Threading.Tasks.Task | |

GetDeviceAsync(String)

Declaration

```
public Task<DeviceRegistryApiModel> GetDeviceAsync(string id)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DeviceRegistryApiModel> | |

GetDeviceDeploymentAsync(String)

Declaration

```
public Task<TwinPropertiesListApiModel> GetDeviceDeploymentAsync(string id)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<TwinPropertiesListApiModel> | |

GetDeviceFilesAsync(String)

Declaration

```
public Task<List<string>> GetDeviceFilesAsync(string id)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<System.Collections.Generic.List<System.String> > | |

GetDevicesAsync(String)

Declaration

```
public Task<DeviceListApiModel> GetDevicesAsync(string query)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.String | query | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DeviceListApiModel> | |

InvokeDeviceMethodAsync(String, MethodParameterApiModel)

Declaration

```
public Task<MethodResultApiModel> InvokeDeviceMethodAsync(string id, MethodParameterApiModel parameter)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------------|-----------|-------------|
| System.String | id | |
| MethodParameterApiModel | parameter | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<MethodResultApiModel> | |

PostAsync(DeviceRegistryApiModel)

Declaration

```
public Task<DeviceRegistryApiModel> PostAsync(DeviceRegistryApiModel device)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|------------------------|--------|-------------|
| DeviceRegistryApiModel | device | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DeviceRegistryApiModel> | |

PutAsync(String, DeviceRegistryApiModel)

Declaration

```
public Task<DeviceRegistryApiModel> PutAsync(string id, DeviceRegistryApiModel device)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|------------------------|--------|-------------|
| System.String | id | |
| DeviceRegistryApiModel | device | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DeviceRegistryApiModel> | |

QueryDevicesAsync(String)

Declaration

```
public Task<DeviceListApiModel> QueryDevicesAsync(string query)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.String | query | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<DeviceListApiModel> | |

SendCloudToDeviceAsync(String, String)

Declaration

```
public Task SendCloudToDeviceAsync(string id, string message)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|---------|-------------|
| System.String | id | |
| System.String | message | |

Returns

| TYPE | DESCRIPTION |
|-----------------------------|-------------|
| System.Threading.Tasks.Task | |



Class JobsController

Inheritance

System.Object

JobsController

Namespace: [Mmm.Iot.IoTHubManager.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class JobsController : Controller
```

Constructors

JobsController(IJobs)

Declaration

```
public JobsController(IJobs jobs)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------|------|-------------|
| IJobs | jobs | |

Methods

GetAsync(Nullable<JobType>, Nullable<JobStatus>, Nullable<Int32>, String, String)

Declaration

```
public Task<IEnumerable<JobApiModel>> GetAsync(JobType? jobType, JobStatus? jobStatus, int? pageSize, string from, string to)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------------------|-----------|-------------|
| System.Nullable<JobType> | jobType | |
| System.Nullable<JobStatus> | jobStatus | |
| System.Nullable<System.Int32> | pageSize | |
| System.String | from | |
| System.String | to | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<System.Collections.Generic.IEnumerable<JobApiModel>> | |

GetJobAsync(String, Nullable<Boolean>, Nullable<DeviceJobStatus>)

Declaration

```
public Task<JobApiModel> GetJobAsync(string jobId, bool? includeDeviceDetails, DeviceJobStatus? deviceJobStatus)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------------------------|----------------------|-------------|
| System.String | jobId | |
| System.Nullable<System.Boolean> | includeDeviceDetails | |
| System.Nullable<DeviceJobStatus> | deviceJobStatus | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<JobApiModel> | |

ScheduleAsync(JobApiModel)

Declaration

```
public Task<JobApiModel> ScheduleAsync(JobApiModel parameter)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------|-----------|-------------|
| JobApiModel | parameter | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<JobApiModel> | |



Class ModulesController

Inheritance

System.Object

ModulesController

Namespace: [Mmm.Iot.IoTHubManager.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class ModulesController : Controller
```

Constructors

ModulesController(IDevices)

Declaration

```
public ModulesController(IDevices devices)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------|---------|-------------|
| IDevices | devices | |

Methods

GetModuleTwinAsync(String, String)

Declaration

```
public Task<TwinPropertiesApiModel> GetModuleTwinAsync(string deviceId, string moduleId)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|----------|-------------|
| System.String | deviceId | |
| System.String | moduleId | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<TwinPropertiesApiModel> | |

GetModuleTwinsAsync(String)

Declaration

```
public Task<TwinPropertiesListApiModel> GetModuleTwinsAsync(string query)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.String | query | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<TwinPropertiesListApiModel> | |

QueryModuleTwinsAsync(String)

Declaration

```
public Task<TwinPropertiesListApiModel> QueryModuleTwinsAsync(string query)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|-------|-------------|
| System.String | query | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<TwinPropertiesListApiModel> | |



Class StatusController

Inheritance

System.Object

StatusController

Namespace: [Mmm.Iot.IoTHubManager.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public sealed class StatusController : ControllerBase
```

Constructors

StatusController(IStatusService)

Declaration

```
public StatusController(IStatusService statusService)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|---------------|-------------|
| IStatusService | statusService | |

Methods

GetAsync()

Declaration

```
public Task<StatusApiModel> GetAsync()
```

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<StatusApiModel> | |

Ping()

Declaration

```
public IActionResult Ping()
```

Returns

| TYPE | DESCRIPTION |
|---------------|-------------|
| IActionResult | |



Tenant Manager

Tenant Manager offers APIs to maintains tenants, Alerting, tenants' readiness status, and health status of service.

Within each Serenity instance an interactive Swagger UI is available at the following path

`https://{platform-url}/tenantmanager/index.html` For more information about Swagger UI, [click here](#).

REST operation groups

The Device Telemetry REST API provides operations for working with the following:

| OPERATION GROUP | DESCRIPTION |
|------------------------------|--|
| Tenant | Manage Tenant |
| Tenant Ready | Tenant readiness status |
| Alerting | Manage stream analytics job |
| Status | Health status operations for the Service |



Tenant

Service: Tenant Manager

Operations

| OPERATION | DESCRIPTION |
|---|---|
| Get Tenant details | Fetches tenant details |
| Get All Tenants details registred to a user | Fetches all tenant details regisitred to a user |
| Create Tenant | Create a tenant |
| Rename the Tenant | Rename a tenant |
| Delete Tenant | Delete tenant |



Get Tenant details

API that Gets information about a tenant that is stored in table storage

Permissions

ReadAll

Http Request

GET /tenantmanager/api/Tenant

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Returns 200 OK and Tenant info:

```
json { "tenantId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx", "iotHubName": "xxxxxxx", "dpsName": "xxxxxxxx", "saJobName": "xxxxxxx", "isIotHubDeployed": true, "markedForDeletion": true, "tenantName": "Tenant Name", "partitionKey": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx", "rowKey": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx", "timestamp": "2020-10-29T11:36:34.702Z", "eTag": "string" }
```



Get All Tenants details registered to a user

API that fetches the All Tenant details which are registered to the user.

Permissions

ReadAll

Http Request

GET /tenantmanager/api/Tenant/All

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Returns 200 OK:

```
json { "Method": "GetTenants", "Models": [ { "roles": "[\"xxxxx\"]", "userId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx", "tenantId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx", "roleList": [ "xxxxx" ], "tenantName": "xxxxxx", "partitionKey": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx", "rowKey": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx", "timestamp": "0001-01-01T00:00:00+00:00", "eTag": null } ] }
```



Create Tenant

API that creates a new tenant to the user.

Other Attributes

SystemAdminAuthorize

Http Request

POST /tenantmanager/api/Tenant

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Returns 200 OK and the new tenant info:

```
json { "message": "Your tenant is being created.", "tenantId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx" }
```

- Status Code 401 - Invalid auth token



Rename the Tenant

API that renames the tenant name.

Other Attributes

| |
|----------------------|
| SystemAdminAuthorize |
|----------------------|

Http Request

| |
|--|
| PUT /tenantmanager/api/Tenant/{tenantId} |
|--|

Parameters

| PARAMETER | TYPE | DESCRIPTION |
|-----------|------|-------------|
| tenantId | guid | Tenant Id |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

| |
|-------------------|
| "New Tenant Name" |
|-------------------|

Response

- Returns 200 OK and Tenant info:

```
json { "tenantId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx", "iotHubName": "xxxxxxxx", "dpsName": "xxxxxxxx", "saJobName": "xxxxxxxx", "isIotHubDeployed": true, "markedForDeletion": true, "tenantName": "Tenant Name", "partitionKey": "0", "rowKey": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx", "timestamp": "2020-10-29T11:36:34.702Z", "eTag": "string" }
```



Delete Tenant

API that deletes the specified tenant.

Other Attributes

SystemAdminAuthorize

Http Request

DELETE /tenantmanager/api/Tenant

Query parameters

| QUERY PARAMETER | TYPE | DESCRIPTION |
|---------------------|---------|------------------------------|
| ensureFullyDeployed | boolean | Default value is true |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Returns 200 OK

```
json { "tenantId": "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx", "ensuredDeployment": true, "deletionRecord": {  
  "tenantTableStorage": true, "userTableStorage": true, "iotHub": true, "dps": true, "alerting": true, },  
  "fullyDeleted": true }
```



Tenant Ready

Service: Tenant Manager

Operations

| OPERATION | DESCRIPTION |
|--|---------------------------------|
| Check specified tenant is ready or not | Fetches tenant readiness status |



Check specified tenant is ready or not

API that returns true or false depending on if the tenant is ready or not.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|---|
| GET /tenantmanager/api/TenantReady/{tenantId} |
|---|

Parameters

| PARAMETER | TYPE | DESCRIPTION |
|-----------|------|-------------|
| tenantId | guid | Tenant Id |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

- Status Code 200:

| |
|------|
| true |
|------|

OR

| |
|-------|
| false |
|-------|

- Status Code 404 - Invalid tenant id



Alerting

Service: Tenant Manager

Operations

| OPERATION | DESCRIPTION |
|--|--------------------------------------|
| Get stream analytics job details | Fetches stream analytics job details |
| Create stream analytics job | Create stream analytics job |
| Remove stream analytics job | Remove stream analytics job |
| Start stream analytics job | Start stream analytics job |
| Stop stream analytics job | Stop stream analytics job |



Get stream analytics job details

API that fetches the details of stream analytics job assigned to tenant.

Permissions

ReadAll

Http Request

GET /tenantmanager /api /Alerting

Query parameters

| QUERY PARAMETER | TYPE | DESCRIPTION |
|-------------------|---------|---|
| createlfNotExists | boolean | If true it creates a stream analytics job to a tenant. Default value is false |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Status Code 200:

```
json { "tenantId": "string", "streamAnalyticsJobName": "string", "jobState": "string", "isActive": true }
```



Create stream analytics job

API that creates a stream analytics job to tenant.

Permissions

EnableAlerting

Http Request

POST /tenantmanager /api /Alerting

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Status Code 200:

```
json { "tenantId": "string", "streamAnalyticsJobName": "string", "jobState": "string", "isActive": true }
```



Remove stream analytics job

API that removes a stream analytics job to the tenant.

Permissions

DisableAlerting

Http Request

DELETE /tenantmanager /api /Alerting

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Status Code 200:

```
json { "tenantId": "string", "streamAnalyticsJobName": "string", "jobState": "string", "isActive": true }
```



Start stream analytics job

API that starts the stream analytics job assigned to the tenant.

Permissions

EnableAlerting

Http Request

POST /tenantmanager /api /Alerting

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Status Code 200:

```
json { "tenantId": "string", "streamAnalyticsJobName": "string", "jobState": "string", "isActive": true }
```



Stop stream analytics job

API that stops the stream analytics job assigned to the tenant.

Permissions

DisableAlerting

Http Request

POST /tenantmanager /api /Alerting/stop

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

N/A

Response

- Status Code 200.



Status

Service: Tenant Manager

Operations

| OPERATION | DESCRIPTION |
|-----------------------------|---|
| Get Status | Gets status of the Service and its dependencies |
| Ping Status | Provides the health status of the service. |



Get Status

API that fetches the status of the Tenant Manager Service.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|------------------------------|
| GET /tenantmanager/v1/status |
|------------------------------|

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

```
{
  "Name": "Tenant Manager",
  "Status": {
    "IsHealthy": true,
    "Message": "Alive and well!"
  },
  "CurrentTime": "2020-10-29T08:39:47+00:00",
  "StartTime": "2020-10-26T23:01:14+00:00",
  "UpTime": 207513,
  "UID": "WebService.a43f99da-a107-446a-a1cb-c2cbad7eaea9",
  "Properties": {
    "authRequired": true,
    "endpoint": "http://+:80"
  },
  "Dependencies": {
    "CosmosDb": {
      "IsHealthy": true,
      "Message": "Alive and Well!"
    },
    "Tenant Runbooks": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "Table Storage": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "Identity Gateway": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "Config": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "App Config": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    }
  },
  "$metadata": {
    "$type": "Status;0",
    "$uri": "/status"
  }
}
```



Ping Status

API that pings the Tenant Manager Service and responds to the status code.

Permissions

N/A

Http Request

GET /tenantmanager/v1/status/ping

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

N/A

Response

Responds 200 Status code



Namespace Mmm.Iot.TenantManager.WebService.Controllers

Classes

[AlertingController](#)

[StatusController](#)

[TenantController](#)

[TenantReadyController](#)



Class AlertingController

Inheritance

System.Object

AlertingController

Namespace: [Mmm.Iot.TenantManager.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class AlertingController : Controller
```

Constructors

AlertingController(IAalertingContainer, ILogger<AlertingController>)

Declaration

```
public AlertingController(IAalertingContainer alertingContainer, ILogger<AlertingController> logger)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---|-------------------|-------------|
| IAalertingContainer | alertingContainer | |
| ILogger< AlertingController > | logger | |

Methods

AddAlertingAsync()

Declaration

```
public Task<StreamAnalyticsJobModel> AddAlertingAsync()
```

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<StreamAnalyticsJobModel> | |

GetAlertingAsync(Boolean)

Declaration

```
public Task<StreamAnalyticsJobModel> GetAlertingAsync(bool createIfNotExists = false)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|-------------------|-------------|
| System.Boolean | createIfNotExists | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<StreamAnalyticsJobModel> | |

RemoveAlertingAsync()

Declaration

```
public Task<StreamAnalyticsJobModel> RemoveAlertingAsync()
```

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<StreamAnalyticsJobModel> | |

StartAsync()

Declaration

```
public Task<StreamAnalyticsJobModel> StartAsync()
```

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<StreamAnalyticsJobModel> | |

StopAsync()

Declaration

```
public Task<StreamAnalyticsJobModel> StopAsync()
```

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<StreamAnalyticsJobModel> | |



Class StatusController

Inheritance

System.Object

StatusController

Namespace: [Mmm.Iot.TenantManager.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public sealed class StatusController : ControllerBase
```

Constructors

StatusController(IStatusService)

Declaration

```
public StatusController(IStatusService statusService)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|---------------|-------------|
| IStatusService | statusService | |

Methods

GetAsync()

Declaration

```
public Task<StatusApiModel> GetAsync()
```

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<StatusApiModel> | |

Ping()

Declaration

```
public IActionResult Ping()
```

Returns

| TYPE | DESCRIPTION |
|---------------|-------------|
| IActionResult | |



Class TenantController

Inheritance

System.Object
TenantController

Namespace: [Mmm.Iot.TenantManager.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class TenantController : Controller
```

Constructors

TenantController(ITenantContainer, ILogger<TenantController>)

Declaration

```
public TenantController(ITenantContainer tenantContainer, ILogger<TenantController> logger)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---|-----------------|-------------|
| ITenantContainer | tenantContainer | |
| ILogger< TenantController > | logger | |

Methods

DeleteAsync(Boolean)

Declaration

```
public Task<DeleteTenantModel> DeleteAsync(bool ensureFullyDeployed = true)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|---------------------|-------------|
| System.Boolean | ensureFullyDeployed | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<DeleteTenantModel> | |

GetAsync()

Declaration

```
public Task<TenantModel> GetAsync()
```

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<TenantModel> | |

GetTenantsAsync()

Declaration

```
public Task<UserTenantListModel> GetTenantsAsync()
```

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<UserTenantListModel> | |

PostAsync()

Declaration

```
public Task<CreateTenantModel> PostAsync()
```

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<CreateTenantModel> | |

UpdateAsync(String, String)

Declaration

```
public Task<TenantModel> UpdateAsync(string tenantId, string tenantName)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|------------|-------------|
| System.String | tenantId | |
| System.String | tenantName | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<TenantModel> | |



Class TenantReadyController

Inheritance

System.Object

TenantReadyController

Namespace: [Mmm.Iot.TenantManager.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class TenantReadyController : Controller
```

Constructors

TenantReadyController(ITenantContainer, ILogger<TenantReadyController>)

Declaration

```
public TenantReadyController(ITenantContainer tenantContainer, ILogger<TenantReadyController> logger)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|--|-----------------|-------------|
| ITenantContainer | tenantContainer | |
| ILogger< TenantReadyController > | logger | |

Methods

GetAsync(String)

Declaration

```
public Task<bool> GetAsync(string tenantId)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|----------|-------------|
| System.String | tenantId | |

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<System.Boolean> | |



ASA Manager

ASA Manager Service offers methods to asynchronously convert data related to tenants into formats suitable for Azure Stream Analytics Job inputs.

This is an application service. It's not accessible from outside of the application.

REST operation groups

The ASA Manager Service REST API provides operations for working with the following:

| OPERATION GROUP | DESCRIPTION |
|------------------------------|---|
| DeviceGroups | Conversion Operations for DeviceGroups. |
| Rules | Conversion Operations for Rules. |
| Status | Health status operations for the Service. |



Device Groups

Service: Asa Manager

Operations

| OPERATION | DESCRIPTION |
|---|---|
| Begin Device Group Conversion | Converts DeviceGroup data into CSV format for ASA Job. |
| Begin IoT Hub Job Delay Device Group Conversion | Converts DeviceGroup data into CSV format for ASA Job based on status of IoT Hub Job. |



Begin Device Group Conversion

API that begins the conversion of devicegroups data from cosmos collection into csv format for Azure Stream Analytics job.

Permissions

| |
|----|
| NA |
|----|

Http Request

| |
|----------------------|
| GET /v1/devicegroups |
|----------------------|

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

If successful, this method returns **BeginConversionApiModel** object in the response body.

Response Schema

| |
|--|
| <pre>{ "tenantId": "string", "operationId": "string" }</pre> |
|--|

Sample Response

| |
|--|
| <pre>{ "tenantId": "ac1037c4-386e-4402-9209-f9602ce90afe", "operationId": "c2412f4c-a397-4b7a-81a1-0d175a9b69c6" }</pre> |
|--|



Begin IoT Hub Job Delay Device Group Conversion

API that begins the conversion of devicegroups data from cosmos collection into csv format for Azure Stream Analytics job based on completion status of an IoT Hub Job.

Permissions

| |
|----|
| NA |
|----|

Http Request

| |
|---|
| GET /v1/devicegroups/iothubjobdelay/{jobId} |
|---|

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Query Params

| NAME | DESCRIPTION |
|-------|--------------------|
| jobId | JobId from IoT Hub |

Request Body

| |
|-----|
| N/A |
|-----|

Response

If successful, this method returns **BeginConversionApiModel** object in the response body.

Response Schema

| |
|--|
| {
"tenantId": "string",
"operationId": "string"
} |
|--|

Sample Response

| |
|--|
| {
"tenantId": "ac1037c4-386e-4402-9209-f9602ce90afe",
"operationId": "c2412f4c-a397-4b7a-81a1-0d175a9b69c6"
} |
|--|



Rules

Service: ASA Manager

Operations

| OPERATION | DESCRIPTION |
|---------------------------------------|--|
| Begin Rule Conversion | Converts Rules data into CSV format for ASA Job. |



Begin Rule Conversion

API that begins the conversion of rules data from cosmos collection into csv format for Azure Stream Analytics job.

Permissions

| |
|----|
| NA |
|----|

Http Request

| |
|---------------|
| GET /v1/rules |
|---------------|

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

If successful, this method returns **BeginConversionApiModel** object in the response body.

Response Schema

| |
|--|
| <pre>{ "tenantId": "string", "operationId": "string" }</pre> |
|--|

Sample Response

| |
|--|
| <pre>{ "tenantId": "ac1037c4-386e-4402-9209-f9602ce90afe", "operationId": "c2412f4c-a397-4b7a-81a1-0d175a9b69c6" }</pre> |
|--|



Status

Service: ASA Manager

Operations

| OPERATION | DESCRIPTION |
|-----------------------------|---|
| Get Status | Gets status of the Service and its dependencies |
| Ping Status | Provides the health status of the service. |



Get Status

API Method that provides the status of the ASA Manager Service and its dependencies

Permissions

N/A

Http Request

GET /v1/status

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

N/A

Response Schema

```
{
  "name": "string",
  "status": {
    "isHealthy": true,
    "message": "string"
  },
  "currentTime": "string",
  "startTime": "string",
  "upTime": 0,
  "uid": "string",
  "properties": {
    "authRequired": true,
    "endpoint": "string"
  },
  "dependencies": {
    "additionalProp1": {
      "isHealthy": true,
      "message": "string"
    },
    "additionalProp2": {
      "isHealthy": true,
      "message": "string"
    },
    "additionalProp3": {
      "isHealthy": true,
      "message": "string"
    }
  },
  "metadata": {
    "additionalProp1": "string",
    "additionalProp2": "string",
    "additionalProp3": "string"
  }
}
```

Sample Response

```
{
  "Name": "ASA Manager",
  "Status": {
    "IsHealthy": true,
    "Message": "Alive and well!"
  },
  "CurrentTime": "2020-10-29T15:48:25+00:00",
  "StartTime": "2020-10-26T23:00:48+00:00",
  "UpTime": 233256,
  "UID": "WebService.c477e657-a941-4a01-82fd-ecc2d6cfaba4",
  "Properties": {
    "authRequired": true,
    "endpoint": "http://+:80"
  },
  "Dependencies": {
    "Storage Adapter": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "IoTHub Manager": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    },
    "Blob Storage": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    }
  },
  "$metadata": {
    "$type": "Status;0",
    "$uri": "/status"
  }
}
```

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsctestab2c.onmicrosoft.com>



Ping Status

API method to provide the health status of the service.

Permissions

N/A

Http Request

GET /v1/status/ping

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

N/A

Response

Respond with 200 Status code if service is up.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crsltestab2c.onmicrosoft.com>



Storage Adapter Manager

Storage Adapter Manager offers APIs to maintains data in DB storage and health status of service.

This is an application service. It's not accessible from outside of the application.

REST operation groups

The Device Telemetry REST API provides operations for working with the following:

| OPERATION GROUP | DESCRIPTION |
|------------------------|--|
| Values | Manage data in storage |
| Status | Health status operations for the Service |



Values

Service: Storage Adapter

Operations

| OPERATION | DESCRIPTION |
|---|---|
| Get value for given collectionId and key | Fetches the stored data |
| Get all values in collectionId | Fetches list of stored data related to collectionId |
| Save value by collectionId and randomly generated key | Save data in storage |
| Update value by collectionId and key | Update data in storage |
| Delete value from storage | Delete data from storage |



Get value for given collectionId and key

API that fetches the data for a given collection and key.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|---|
| GET /v1/collections/{collectionId}/values/{key} |
|---|

Parameters

| PARAMETER | TYPE | DESCRIPTION |
|--------------|--------|---|
| collectionId | string | Represents the collection of data or file stored in storage |
| key | string | It is a unique ID that represents a data or file, it also known as fileName |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

- Status Code 200:

```
{
  "$metadata": {
    "$type": "Value;1",
    "$modified": "...",
    "$uri": "/v1/collections/test/values/filename"
  },
  "Key": "filename",
  "Data": "data to store",
  "ETag": "\"...\""
}
```

- Status Code 400 - Empty or invalid collection id or key. Valid characters are a-Z,A-Z,0-9,_ and -.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Get all values in collectionId

API that fetches all of the values under a given collection.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|---|
| GET /v1/collections/{collectionId}/values |
|---|

Parameters

| PARAMETER | TYPE | DESCRIPTION |
|--------------|--------|---|
| collectionId | string | Represents the collection of data or file stored in storage |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

- Status Code 200 - Returns list of values :

```
{
  "Items": [
    {
      "$metadata": {
        "$type": "Value;1",
        "$modified": "...",
        "$uri": "/v1/collections/test/values/key1"
      },
      "Key": "key1",
      "Data": "data to store",
      "ETag": "\"...\""
    }
  ],
  "$metadata": {
    "$type": "ValueList;1",
    "$uri": "/v1/collections/test/values"
  }
}
```

- Status Code 400 - Empty or invalid collection id or key. Valid characters are a-Z,A-Z,0-9,_ and -.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Save value by collectionId and randomly generated key

API that saves a value by collectionId and assigned a randomly generated key.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|--|
| POST /v1/collections/{collectionId}/values |
|--|

Parameters

| PARAMETER | TYPE | DESCRIPTION |
|--------------|--------|---|
| collectionId | string | Represents the collection of data or file stored in storage |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

| |
|-----------------------------------|
| {
"data": "data to store"
} |
|-----------------------------------|

Response

- Status Code 200:

json { "\$metadata": { "\$type": "Value;1", "\$modified": "...", "\$uri":
"/v1/collections/test/values/filename" }, "Key": "filename", "Data": "data to store", "ETag": "\"...\"" }
}
- Status Code 400 - Empty or invalid collection id or key. Valid characters are a-Z,A-Z,0-9,_ and -.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Update value by collectionId and key

API that saves a value by collectionId and Key.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|---|
| PUT /v1/collections/{collectionId}/values/{key} |
|---|

Parameters

| PARAMETER | TYPE | DESCRIPTION |
|--------------|--------|---|
| collectionId | string | Represents the collection of data or file stored in storage |
| key | string | It is a unique ID that represents a data or file, it also known as fileName |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

| |
|----------------------------------|
| {
"data":"data to store"
} |
|----------------------------------|

Response

- Status Code 200:

| |
|---|
| {
"\$metadata": {
"\$type": "Value;1",
"\$modified": "...",
"\$uri": "/v1/collections/test/values/filename"
},
"Key": "filename",
"Data": "data to store",
"ETag": "\"...\""
} |
|---|

- Status Code 400 - Empty or invalid collection id or key. Valid characters are a-Z,A-Z,0-9,_ and -.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Delete value from storage

API that deletes value by collectionId and values.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|--|
| DELETE /v1/collections/{collectionId}/values/{key} |
|--|

Parameters

| PARAMETER | TYPE | DESCRIPTION |
|--------------|--------|---|
| collectionId | string | Represents the collection of data or file stored in storage |
| key | string | It is a unique ID that represents a data or file, it also known as fileName |

Request Headers

| HEADER | VALUE |
|---------------|---------------------------|
| Authorization | Bearer {token}. Required. |
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

- Status Code 200 - Value has been deleted or didn't exist
- Status Code 400 - Empty or invalid collection id or key. Valid characters are a-Z,A-Z,0-9,_ and -.

Security

Type: OpenID Connect

Flow: implicit

Authorization URL: <https://login.microsoftonline.com/crs1testab2c.onmicrosoft.com>



Status

Service: Storage Adapter

Operations

| OPERATION | DESCRIPTION |
|-----------------------------|---|
| Get Status | Gets status of the Service and its dependencies |
| Ping Status | Provides the health status of the service. |



Get Status

API that fetches the status of the Storage Adapter Service.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|----------------|
| GET /v1/status |
|----------------|

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

```
{
  "Name": "Storage Adapter",
  "Status": {
    "IsHealthy": true,
    "Message": "Alive and well!"
  },
  "CurrentTime": "2020-10-30T10:22:44+00:00",
  "StartTime": "2020-10-30T10:22:44+00:00",
  "UpTime": 0,
  "UID": "WebService.fb371dfd-bf89-4ca4-bd05-d44b6d6a712a",
  "Properties": {
    "authRequired": true,
    "endpoint": "https://localhost:5001;http://localhost:5000"
  },
  "Dependencies": {
    "CosmosDb": {
      "IsHealthy": true,
      "Message": "Alive and Well!"
    },
    "App Config": {
      "IsHealthy": true,
      "Message": "Alive and well!"
    }
  },
  "$metadata": {
    "$type": "Status;0",
    "$uri": "/status"
  }
}
```



Ping Status

API that pings the Storage Adapter Service and responds to the status code.

Permissions

| |
|-----|
| N/A |
|-----|

Http Request

| |
|---------------------|
| GET /v1/status/ping |
|---------------------|

Request Headers

| HEADER | VALUE |
|--------------|------------------|
| Content-Type | application/json |

Request Body

| |
|-----|
| N/A |
|-----|

Response

| |
|--------------------------|
| Responds 200 Status code |
|--------------------------|



Namespace Mmm.Iot.StorageAdapter.WebService.Controllers

Classes

[StatusController](#)

[ValuesController](#)



Class StatusController

Inheritance

System.Object
StatusController

Namespace: [Mmm.Iot.StorageAdapter.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public sealed class StatusController : ControllerBase
```

Constructors

StatusController(IStatusService)

Declaration

```
public StatusController(IStatusService statusService)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|----------------|---------------|-------------|
| IStatusService | statusService | |

Methods

GetAsync()

Declaration

```
public Task<StatusApiModel> GetAsync()
```

Returns

| TYPE | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task<StatusApiModel> | |

Ping()

Declaration

```
public IActionResult Ping()
```

Returns

| TYPE | DESCRIPTION |
|---------------|-------------|
| IActionResult | |



Class ValuesController

Inheritance

System.Object
ValuesController

Namespace: [Mmm.Iot.StorageAdapter.WebService.Controllers](#)

Assembly: cs.temp.dll.dll

Syntax

```
public class ValuesController : Controller
```

Constructors

ValuesController(IKeyValueContainer, IKeyGenerator, ILogger<ValuesController>)

Declaration

```
public ValuesController(IKeyValueContainer container, IKeyGenerator keyGenerator, ILogger<ValuesController> logger)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---|--------------|-------------|
| IKeyValueContainer | container | |
| IKeyGenerator | keyGenerator | |
| ILogger< ValuesController > | logger | |

Methods

Delete(String, String)

Declaration

```
public Task Delete(string collectionId, string key)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|--------------|-------------|
| System.String | collectionId | |
| System.String | key | |

Returns

| TYPE | DESCRIPTION |
|-----------------------------|-------------|
| System.Threading.Tasks.Task | |

Get(String)

Declaration

```
public Task<ValueListApiModel> Get(string collectionId)
```

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|--------------|-------------|
| System.String | collectionId | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<ValueListApiModel> | |

Get(String, String)

Declaration

| |
|---|
| public Task<ValueApiModel> Get(string collectionId, string key) |
|---|

Parameters

| TYPE | NAME | DESCRIPTION |
|---------------|--------------|-------------|
| System.String | collectionId | |
| System.String | key | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<ValueApiModel> | |

Post(String, ValueServiceModel)

Declaration

| |
|---|
| public Task<ValueApiModel> Post(string collectionId, ValueServiceModel model) |
|---|

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------|--------------|-------------|
| System.String | collectionId | |
| ValueServiceModel | model | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<ValueApiModel> | |

Put(String, String, ValueServiceModel)

Declaration

| |
|--|
| public Task<ValueApiModel> Put(string collectionId, string key, ValueServiceModel model) |
|--|

Parameters

| TYPE | NAME | DESCRIPTION |
|-------------------|--------------|-------------|
| System.String | collectionId | |
| System.String | key | |
| ValueServiceModel | model | |

Returns

| TYPE | DESCRIPTION |
|--|-------------|
| System.Threading.Tasks.Task<ValueApiModel> | |