Table of Contents

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	
Tenant Manager	
Device Telemetry	
Config	
Diagnostics	

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

TODO: List relevant Azure Services APIs.

Serenity Authorization Flow

TODO:

- Describe Serenity's Authorization Model
- Describe Azure B2C and it's configuration for OpenId
    - https://docs.microsoft.com/en-us/azure/active-directory-b2c/openid-connect
- Explain how some systems have replaced this for alternative auth providers, like PSD and potentially EMD
- Describe the Authorization Flow, pulling information from and linking to: https://docs.microsoft.com/en-us/azure/active-directory/develop/msal-authentication-flows
- Incorporate details from the following into their appropriate locations:
    - https://docs.microsoft.com/en-us/azure/active-directory-b2c/tokens-overview
    -

Security

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

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 it to the root URL using the following syntax:

```
    {root 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

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 `/auth/index.html` For more information, 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	
SystemAdmin	
UserSettings	
UserTenant	
Status	

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

Service: Identity Gateway

Authorizes user through configured Authorization Provider.

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

URI Parameters

NAME	REQUIRED	TYPE	DESCRIPTION
redirect_uri	?	string	?
state	?	string	?
client_id	?	string	?
nonce	?	string	?
tenant	?	string	?
invite	?	string	?

Responses

NAME	TYPE	DESCRIPTION
200 OK		

Authorize - Token

Service: Identity Gateway

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

```
POST https://{platform-url}/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	Name of the user
client_secret	true	string	Current status of the user: Invited or Member
scope	true	string	Role of the user i.e., admin, readonly, contributor

Responses

NAME	TYPE	DESCRIPTION
200 OK		

Examples

{Description of example}

Sample Request

```
POST https://{platform-url}/connect/token
```

Sample Body

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

Sample Response

eyJhbDciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.eyJjbGllbnRdaWQiOiI5NWQzYzY2Mi0yM2VhLTRlMmQtOGQzZC1lYTI0NDg3MDY5MzQiLCJzdWIiOiI5NWQzYzY2Mi0yM2VhLTRlNmQtOGQzZC1lYTI0NDg3MDY5MzQiLCJuYW1lIjoiOTVkM2M2NjItMjNlYS00ZTJkLThkM2QtZWEyNDQ4NzA2OTM0IiwidHlwZSI6IkNsaWVudCBDcmVkZW50aWFscyIsImlhdCI6MTYwNDMwNTc0OCwidGVuYW50IjoiMjMzYTFjYTItNjg1NS00M2M1LThiOWMtYzdmODVhMWRkNTIwIiwicm9sZSI6ImFkbWluIiwiaXNfc3lzdGVtQWRtaW4iOmZhbHNlLCJhdmFpbGFibGVfdGVuYW50cyI6IjIzM2ExY2EyLTY4NTUtNDNjNS04YjljLWM3Zjg1YTFkZDUyMCIsImV4cCI6MTYwNjg5Nzc0OCwiaXNzIjoiaHR0cHM6Ly9jcnNsaW90LWFrcy1kZXYuY2VudHJhbHVzLmNsb3VkYXBwLmF6dXJlLmNvbS9hdXRoIiwiYXVkIjoiSW9UUGxhdGZvcm0ifQ.oGTvV4NH5qL4qf8xtWChzn4GCWeaBV8Z9RwXmInK6V9mE3kSk2LqPJg9x7OVPZwHOaQkUcEh2_e9IZKOtwF9JXgz9ZLeFedpBSoLQPAtshMj1YBIXw64MGnuxViB7NoETjxMYsS3cD63_xSSIq2NgjAixHXeT5yONi5SNKIlScRVv3fytLbWCZou2oWoThTIHUYb-A-plaBWjyLfzhCnSJboolFXWw5QbMZcIUNUvg8yJ1oR7M3-OWtHnKdo7vjkSnl5ASe0_dWXaX0LrYBmNUaPek9xG3xTYekhc8rNvf5hL1k7F9VwRVBysPEnaZcnbXrsOvsQ_MmAk4hcuYaDtA

Authorize - Logout

Service: Identity Gateway

Returns to the redirect url passed on successful logout.

Http Request

```
GET https://{platform-url}/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	TODO: Response Object	

Definitions

TODO: Add Response Objects from above

Examples

Log out of CRSL Dev

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

Authorize - Tenant

Service: Identity Gateway

Used to switch tenants

```
POST https://{platform-url}/connect/switch/{tenantId}
```

Request headers

HEADER	VALUE
Content-Type	application/json

Responses

NAME	TYPE	DESCRIPTION
200 OK		

Examples

Tenant Switch Example

```
POST https://{platform-url}/connect/switch/233a1ca2-6855-43c5-8b9c-c7f85a1dd520
```

POST Connect Callback

```
This Method executes the callback method
```

Http Request

```
POST https://{platform-url}/connect/callback
```

Request headers

HEADER	VALUE
Content-Type	application/json

Responses

NAME	TYPE	DESCRIPTION
200 OK	TODO: Response Object	

Sample Request

Request Body

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

Response

```
200 Response
```

Configuration

Service: Identity Gateway

Operations

openid-configuration	{TODO: Add Description}
openid-configuration/jwks	{TODO: Add Description}

Configuration - OpenID Configuration

Service: Identity Gateway

{TODO: Add Description}

```
GET https://{platform-url}/.well-known/openid-configuration
```

URI Parameters

NAME	REQUIRED	TYPE	DESCRIPTION
	?	?	?

Responses

NAME	TYPE	DESCRIPTION
200 OK	TODO: Response Object	

Security

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

Definitions

TODO: Add Response Objects from above

Examples

System Admin

Service: Identity Gateway API Version: 2020-11-03

Operations

User Settings

Service: Identity Gateway API Version: 2020-11-03

Operations

User Tenant

Service: Identity Gateway API Version: 2020-11-03

Operations

Status

Service: Identity Gateway API Version: 2020-11-03

Operations

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 `/auth/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/crsltestab2c.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/crsltestab2c.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

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

```
{
  "name": "string",
  "description": "string",
  "azureMapsKey": "string"
}
```

Sample Response

```
{
    "name": "My Solution",
    "description": "My Solution Description",
    "azureMapsKey": "qgZ7OQi8XryD6py8L-ZId8DNuaWtCbdrQ996mY3aQl8"
}
```

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

```
{
  "name": "string",
  "description": "string",
  "azureMapsKey": "string"
}
```

Sample Request Body

```
{
    "name": "My Solution",
    "description": "My Solution Description",
    "azureMapsKey": "qgZ7OQi8XryD6py8L-ZId8DNuaWtCbdrQ996mY3aQl8"
}
```

Response Schema

```
{
  "name": "string",
  "description": "string",
  "azureMapsKey": "string"
}
```

Sample Response

```
{
    "name": "My Solution",
    "description": "My Solution Description",
    "azureMapsKey": "qgZ7OQi8XryD6py8L-ZId8DNuaWtCbdrQ996mY3aQl8"
}
```

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 l -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 l 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 l -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 l -
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 l 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 L 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 l 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 l -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 l 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 l -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 l -
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 l 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 L 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 l 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",
    "$uri": "/v1/collections/solution-settings/values/defaultFirmware"
  },
  "Key": "defaultFirmware",
  "Data": "{\"JsObject\":{\"content\":{\"deviceContent\":{\"properties.desired.softwareConfig\":
{\"softwareName\":\"Firmware\",\"version\":\"${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},\"Metada
ta\":{\"Version\":\"content//deviceContent//properties.desired.softwareConfig//version\"}}",
  "ETag": "\"010050d8-0000-0300-0000-5fa012ab0000\""
}
```


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/crsltestab2c.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/crsltestab2c.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.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<AlarmByRuleListApiModel>	

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<AlarmByRuleListApiModel> PostAsync(QueryApiModel body)
```

Parameters

TYPE	NAME	DESCRIPTION
QueryApiModel	body	

Returns

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

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<IActionResult>	

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 following path

```
/diagnostics/index.html
```

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


```
{
    "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"
    }
}
```

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.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	

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(IAlertingContainer, ILogger<AlertingController>)

Declaration

```
public AlertingController(IAlertingContainer alertingContainer, ILogger<AlertingController> logger)
```

Parameters

TYPE	NAME	DESCRIPTION
IAlertingContainer	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

The ASA Manager service offers APIs to asynchronously convert tenant data into formats suitable for Azure Stream Analytics Job inputs.

REST operation groups

The ASA Manager API provides operations for working with the following:

OPERATION GROUP	DESCRIPTION
DeviceGroups	
Rules	
Status	

Device Groups

Service: Asa Manager API Version: 2020-11-03

Operations

DeviceGroups

DeviceGroups Controller contains methods to convert the DeviceGroups in the Cosmos DB Collection and converts into file format suitable for Azure Stream Analytics job.

This document provides overview of following methods of DeviceGroup Controller.

1. Begin Device Group Conversion
2. Begin IotHub Job Delay Device Group Conversion

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.

Respone Schema

```
{
  "tenantId": "string",
  "operationId": "string"
}
```

Sample Response

```
{
  "tenantId": "ac1037c4-386e-4402-9209-f9602ce90afe",
  "operationId": "c2412f4c-a397-4b7a-81a1-0d175a9b69c6"
}
```

Begin IotHub 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.

Respone Schema

```
{
  "tenantId": "string",
  "operationId": "string"
}
```

Sample Response

```
{
  "tenantId": "ac1037c4-386e-4402-9209-f9602ce90afe",
  "operationId": "c2412f4c-a397-4b7a-81a1-0d175a9b69c6"
}
```

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>	