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## Platform APIs

There are many APIs available for use across the 3M IoT Platform. This document outlines those APIs and links to additional information.

## **Serenity APIs**

This section provides reference information for the Serenity APIs. They conform to the OpenAPI Specification.

TODO: List relevant Serenity API Services.

### **Azure APIs**

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

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## 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

Authorize	{TODO: Add Description}
Logout	{TODO: Add Description}
Token	{TODO: Add Description}
Tenant	{TODO: Add Description}
Callback	{TODO: Add Description}



## Authorize - Authorize

Service: Identity Gateway

{TODO: Add Description}

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

### **URI Parameters**

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

## Responses

NAME	ТҮРЕ	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



## Authorize - Token

Service: Identity Gateway

{TODO: Add Description}

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

## **Request headers**

HEADER	VALUE
Content-Type	application/json

## **Request Body**

NAME	IN	REQUIRED	ТҮРЕ	DESCRIPTION
client_id	true	true	string	?
client_secret	true	true	string	?
scope	true	true	string	?

### Responses

NAME	ТҮРЕ	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**

{Description of example}

Sample Request

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

{"client\_id":"95d3c562-23eb-4e2d-8d3d-ea2448706934","client\_secret":"SH90ZgTR-MT0bGLbO/u[7qIc-MP0vtAs"}

#### Sample Response

eyJhbDciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.eyJjbGllbnRdaWQiOiI5NWQzYzY2Mi0yM2VhLTRlMmQtOGQzZC1lYTI0NDg3MDY5MzQiLCJzd WIiOiI5NWQzYzY2Mi0yM2VhLTRlNmQtOGQzZC1lYTI0NDg3MDY5MzQiLCJuYW1lIjoiOTVkM2M2NjItMjNlYS00ZTJkLThkM2QtZWEyNDQ4NzA 20TM0IiwidHlwZSI6IkNsaWVudCBDcmVkZW50aWFscyIsImlhdCI6MTYwNDMwNTc0OCwidGVuYW50IjoiMjMzYTFjYTItNjg1NS00M2M1LThiO WMtYzdmODVhMWRkNTIwIiwicm9sZSI6ImFkbWluIiwiaXNfc3lzdGVtQWRtaW4iOmZhbHNlLCJhdmFpbGFibGVfdGVuYW50cyI6IjIzM2ExY2E yLTY4NTUtNDNjNS04YjljLWM3Zjg1YTFkZDUyMCIsImV4cCI6MTYwNjg5Nzc0OCwiaXNzIjoiaHR0cHM6Ly9jcnNsaW90LWFrcy1kZXYuY2Vud HJhbHVzLmNsb3VkYXBwLmF6dXJlLmNvbS9hdXRoIiwiYXVkIjoiSW9UUGxhdGZvcm0ifQ.oGTvV4NH5qL4qf8xtWChzn4GCWeaBV8Z9RwXmInK 6V9mE3kSk2LqPJg9x7OVPZwHOaQkUcEh2\_e9IZKOtwF9JXgz9ZLeFedpBSoLQPAtshMj1YBIXw64MGnuxViB7NoETjxMYsS3cD63\_xSSIq2Ngj AixHXeT5yONi5SNKIlScRVv3fytLbWCZou2oWoThTIHUYb-A-plaBWjyLfzhCnSJboolFXWw5QbMZcIUNUvg8yJ1oR7M3-OWtHnKdo7vjkSn15ASe0\_dWXaX0LrYBmNUaPek9xG3xTYekhc8rNvf5hL1k7F9VwRVBysPEnaZcnbXrsOvsQ\_MmAk4hcuYaDtA



## **GET Connect Logout**

This Method returns to the post redirect uri passed.

### **Permissions**

N/A

## **Http Request**

GET auth/connect/logout?post\_logout\_redirect\_uri={redirectUrl}

## **Request headers**

HEADER	VALUE
Content-Type	application/json

## **Sample Request**

auth/connect/logout?post\_logout\_redirect\_uri=https://crsliot-aks-dev.centralus.cloudapp.azure.com/

## **Request Body**

N/A

### Responses

NAME	ТҮРЕ	DESCRIPTION
200 OK	TODO: Response Object	

## **Security**

Type: OpenID Connect

Flow: implicit

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



## **POST Switch Token**

This Method will be fired when user switches the tenant and it updates the JWT token with the updated tenant details

### **Permissions**

N/A

## **Http Request**

POST connect/switch/{tenantId}

## **Request headers**

HEADER	VALUE
Content-Type	application/json

## **Request Body**

N/A

### **Responses**

NAME	ТҮРЕ	DESCRIPTION
200 OK	TODO: Response Object	

## **Security**

Type: OpenID Connect

Flow: implicit

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

## **Sample Request**

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

### Response

eyJhbGciOiJSUzIINiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiIzZTMwZjMwMS00ZjU3LTRiM2UtOTQ5YS0zZmY4ZTkzODcwYjUiLCJuYW11IjoiV mlzd2FuYWR0IEtvdGhhIENXIiwiaWF0IjoxNjA0Mjk2ODIyLCJ0ZW5hbnQiOiIyMzNhMWNhMi02ODU1LTQzYzUtOGI5Yy1jN2Y4NWExZGQ1MjA iLCJyb2xlIjoiYWRtaW4iLCJpc19zeXN0ZW1BZG1pbiI6dHJ1ZSwiYXZhaWxhYmxlX3RlbmFudHMiOlsiMjA5ZDdmNzktMzlhYS00ZTJhLThlO WMtNTZmMDRmNzYzM2Y5IiwiMjMzYTFjYTItNjg1NS00M2M1LThiOWMtYzdmODVhMWRkNTIwIiwiYTk0MDM1YTktZTFjNS00YmIxLWI3MzktM2I 20TQ5ZTU4NjY0IiwiZjI4NDM0NTEtNWEzNS00NTg5LTk4YmItMGE5YTVmZmUyOGNlIl0sImV4cCI6MTYwNjYzMTEzMSwiaXNzIjoiaHR0cHM6L y9jcnNsaW90LWFrcy1kZXYuY2VudHJhbHVzLmNsb3VkYXBwLmF6dXJlLmNvbS9hdXRoIiwiYXVkIjoiSW9UUGxhdGZvcm0ifQ.jUCYmOuHYM4f kNObCQ6ObAvQ--H9uDrNcgcsojuwhEChPXz1anlaGzPuRZpfK7rhSJzwuC-

jrBLf23nL7pxkQA2mUV7oahKVf6WVh0ea7012HnWIk3mqr\_l3lDyCNjQp9WH2Wz-

 $\label{tqG2LZjh7zutzCmBBAvXd8gyBMqqOwXAVU6yxveMxhmPhyk6LwJSc2fGxsprxNTACHNq89KETQo742peRMo95Xj3dobjRBiKbmglvwuEy2FkzsNjq25ikj6JOsQsgtraFABa35mdGqhLrikVuzmsFMDK0U6-l\_-ot_c4FSPN9Dc\_0oLSL5sB6tRW-zg6rPhhUu_ISLyHh0J51lw$ 



## **POST Connect Callback**

This Method executes the callback method

### **Http Request**

POST connect/callback

## **Request headers**

HEADER	VALUE
Content-Type	application/json

### Responses

NAME	ТУРЕ	DESCRIPTION
200 OK	TODO: Response Object	

## **Security**

Type: OpenID Connect

Flow: implicit

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

## **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 API Version: 2020-11-03



# System Admin

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



# **User Settings**

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



## **User Tenant**

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



## Status

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



# **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



## 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 lotHub 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 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 formation for Platter Stream Apalytics in begins

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
jobld	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.lot.Config.WebService.Controllers

Classes

Config Types Controller

 ${\sf DeviceGroupController}$ 

PackagesController

SeedController

 ${\bf Solution Settings Controller}$ 

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.lot.Config.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

public class ConfigTypesController

#### Constructors

#### ConfigTypesController(IStorage)

Declaration

public ConfigTypesController(IStorage storage)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IStorage	storage	

#### Methods

#### GetAllConfigTypesAsync()

Declaration

public Task<ConfigTypeListApiModel> GetAllConfigTypesAsync()

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Config Type List Api Model >	



## Class DeviceGroupController

Inheritance

System.Object

DeviceGroupController

Name space: Mmm. Iot. Config. WebService. Controllers

Assembly: cs.temp.dll.dll

Syntax

public class DeviceGroupController : Controller

#### Constructors

#### DeviceGroupController(IStorage)

Declaration

public DeviceGroupController(IStorage storage)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IStorage	storage	

#### Methods

#### CreateAsync(DeviceGroupApiModel)

Declaration

public Task<DeviceGroupApiModel> CreateAsync(DeviceGroupApiModel input)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
DeviceGroupApiModel	input	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Device Group Api Model >	

#### DeleteAsync(String)

Declaration

public Task DeleteAsync(string id)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

#### GetAllAsync()

Declaration

public Task<DeviceGroupListApiModel> GetAllAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Device Group List Api Model >	

#### GetAsync(String)

Declaration

public Task<DeviceGroupApiModel> GetAsync(string id)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Device Group Api Model >	

#### UpdateAsync(String, DeviceGroupApiModel)

Declaration

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

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	
DeviceGroupApiModel	input	

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Device Group Api Model >	



# Class PackagesController

Inheritance

System.Object

PackagesController

 $Name space: {\color{red}Mmm.lot.Config.WebService.Controllers}$ 

Assembly: cs.temp.dll.dll

Syntax

public class PackagesController : Controller

#### Constructors

#### PackagesController(IStorage)

Declaration

public PackagesController(IStorage storage)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IStorage	storage	

#### Fields

#### InactivePackageTag

Declaration

public const string InactivePackageTag = "reserved.inactive"

#### Field Value

ТУРЕ	DESCRIPTION
System.String	

#### Methods

#### ActivatePackageAsync(String)

Declaration

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

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	

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

#### AddTagAsync(String, String)

Declaration

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

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	
System.String	tag	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Action Result < Package Api Model > >	

#### DeactivatePackageAsync(String)

Declaration

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

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	

#### Returns

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

#### DeleteAsync(String)

Declaration

public Task DeleteAsync(string id)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

#### GetAsync(String)

#### Declaration

public Task<PackageApiModel> GetAsync(string id)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	

#### Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Package Api Model >	

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

#### Declaration

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

#### Parameters

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

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Package List Api Model >	

#### PostAsync(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

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

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

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Package Api Model >	

#### RemoveTagAsync(String, String)

Declaration

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

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	
System.String	tag	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Action Result < Package Api Model > >	

#### RemoveTagsAsync(String)

Declaration

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

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Action Result < Package Api Model > >	

#### UploadFileAsync(IFormFile)

Declaration

public Task<UploadFileServiceModel> UploadFileAsync(IFormFile uploadedFile)

ТҮРЕ	NAME	DESCRIPTION
lFormFile	uploadedFile	

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <uploadfileservicemodel></uploadfileservicemodel>	



## Class SeedController

Inheritance

System.Object

SeedController

 $Name space: {\color{red}Mmm.lot.Config.WebService.Controllers}$ 

Assembly: cs.temp.dll.dll

Syntax

public class SeedController : Controller

## Constructors

## SeedController(ISeed)

Declaration

public SeedController(ISeed seed)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
ISeed	seed	

## Methods

## PostAsync()

Declaration

public Task PostAsync()

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	



# Class SolutionSettingsController

Inheritance

System.Object

SolutionSettingsController

 $Namespace: \\Mmm.lot.Config.WebService.Controllers$ 

Assembly: cs.temp.dll.dll

Syntax

public class SolutionSettingsController : Controller

#### Constructors

## SolutionSettingsController(IStorage, IActions)

Declaration

public SolutionSettingsController(IStorage storage, IActions actions)

#### **Parameters**

ТУРЕ	NAME	DESCRIPTION
IStorage	storage	
IActions	actions	

#### Methods

## GetActionsSettingsAsync()

Declaration

public Task<ActionSettingsListApiModel> GetActionsSettingsAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Action Settings List Api Model >	

## GetDefaultFirmwareSettingAsync()

Declaration

public Task<DefaultFirmwareSettingApiModel> GetDefaultFirmwareSettingAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <defaultfirmwaresettingapimodel></defaultfirmwaresettingapimodel>	

## GetLogoAsync()

Declaration

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

## GetThemeAsync()

Declaration

public Task<Theme> GetThemeAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <theme></theme>	

## SetDefaultFirmwareSettingAsync (DefaultFirmwareSettingApiModel)

Declaration

public Task<ValueApiModel> SetDefaultFirmwareSettingAsync(DefaultFirmwareSettingApiModel settingModel)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
DefaultFirmwareSettingApiModel	settingModel	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Value Api Model >	

## SetLogoAsync()

Declaration

public Task SetLogoAsync()

## Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

## SetThemeAsync(Theme)

Declaration

public Task<Theme> SetThemeAsync(Theme theme)

## Parameters

ТУРЕ	NAME	DESCRIPTION
Theme	theme	

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <theme></theme>	



## Class StatusController

Inheritance

System.Object

StatusController

 $Name space: {\color{red}Mmm.lot.Config.WebService.Controllers}$ 

Assembly: cs.temp.dll.dll

Syntax

public sealed class StatusController : ControllerBase

#### Constructors

## StatusController(IStatusService)

Declaration

public StatusController(IStatusService statusService)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IStatusService	statusService	

## Methods

## GetAsync()

Declaration

public Task<StatusApiModel> GetAsync()

## Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Status Api Model >	

## Ping()

Declaration

public IActionResult Ping()

ТҮРЕ	DESCRIPTION
IActionResult	



# Class UserSettingsController

Inheritance

System.Object

UserSettingsController

Name space: Mmm. Iot. Config. WebService. Controllers

Assembly: cs.temp.dll.dll

Syntax

public class UserSettingsController : Controller

#### Constructors

## UserSettingsController(IStorage)

Declaration

public UserSettingsController(IStorage storage)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IStorage	storage	

## Methods

## GetUserSettingAsync(String)

Declaration

public Task<object> GetUserSettingAsync(string id)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	

#### Returns

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

## SetUserSettingAsync(String, Object)

Declaration

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

#### Parameters

NAME DESCRIPTION
ng id
ng id

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ТУРЕ	NAME	DESCRIPTION
System.Object	setting	

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



# Namespace Mmm.lot.DeviceTelemetry.WebService.Controllers

Classes

AlarmsByRuleController

AlarmsController

DeviceFilesController

MessagesController

RulesController

StatusController



# Class AlarmsByRuleController

Inheritance

System.Object

AlarmsByRuleController

Namespace: Mmm. Iot. Device Telemetry. 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**

ТҮРЕ	NAME	DESCRIPTION
IAlarms	alarmService	
IRules	ruleService	
ILogger < Alarms By Rule Controller >	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

ТҮРЕ	NAME	DESCRIPTION
System.String	from	
System.String	to	
System.String	order	
System.Nullable < System.Int32 >	skip	
System.Nullable < System.Int32 >	limit	
System.String	devices	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Alarm By Rule List Api Model >	

## GetAsync(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

ТУРЕ	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

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Alarm List By Rule Api Model >	

## PostAsync(QueryApiModel)

#### Declaration

public Task<AlarmByRuleListApiModel> PostAsync(QueryApiModel body)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
QueryApiModel	body	

## Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Alarm By Rule List Api Model >	

## $PostAsync (String,\ Query Api Model)$

Declaration

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

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	
QueryApiModel	body	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Alarm List By Rule Api Model >	



## Class AlarmsController

Inheritance

System.Object

AlarmsController

Namespace: Mmm. Iot. Device Telemetry. 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

ТУРЕ	NAME	DESCRIPTION
IAlarms	alarmService	
ILogger <alarmscontroller></alarmscontroller>	logger	

#### Methods

## Delete(AlarmIdListApiModel)

Declaration

public void Delete(AlarmIdListApiModel alarmList)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
AlarmIdListApiModel	alarmList	

## DeleteAsync(String)

Declaration

public Task DeleteAsync(string id)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	

## GetAsync(String)

Declaration

public Task<AlarmApiModel> GetAsync(string id)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	

#### Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Alarm Api Model >	

## 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

ТҮРЕ	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

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <alarmlistapimodel></alarmlistapimodel>	

## PatchAsync(String, AlarmStatusApiModel)

Declaration

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

ТҮРЕ	NAME	DESCRIPTION
System.String	id	
AlarmStatusApiModel	body	

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Alarm Api Model >	

## PostAsync (Query Api Model)

Declaration

public Task<AlarmListApiModel> PostAsync(QueryApiModel body)

## Parameters

ТУРЕ	NAME	DESCRIPTION
QueryApiModel	body	

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task <alarmlistapimodel></alarmlistapimodel>	



## Class DeviceFilesController

Inheritance

System.Object

DeviceFilesController

Namespace: Mmm. Iot. Device Telemetry. WebService. Controllers

Assembly: cs.temp.dll.dll

Syntax

public class DeviceFilesController : Controller

#### Constructors

## DeviceFilesController(IDeviceFileUploads)

Declaration

public DeviceFilesController(IDeviceFileUploads deviceFileUploads)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IDevice File Uploads	deviceFileUploads	

## Methods

## GetDeviceUploads(String)

Declaration

public Task<DeviceFileListApiModel> GetDeviceUploads(string deviceId)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	deviceId	

#### Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Device File List Api Model >	

## GetFileContents(DownloadRequest)

Declaration

public Task<IActionResult> GetFileContents(DownloadRequest downloadRequest)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
DownloadRequest	downloadRequest	

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task <iactionresult></iactionresult>	



# Class MessagesController

Inheritance

System.Object

MessagesController

Namespace: Mmm. Iot. Device Telemetry. 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

ТҮРЕ	NAME	DESCRIPTION
IMessages	messageService	
ILogger < Messages Controller >	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

ТҮРЕ	NAME DESCRIPTION	N
System.String	from	
System.String	to	
System.String	order	
System.Nullable < System.Int32 >	skip	
System.Nullable < System.Int32 >	limit	
System.String	devices	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Message List Api Model >	

## GetTopDeviceMessagesAsync(Nullable<Int32>, String)

## Declaration

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

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Nullable < System.Int32 >	limit	
System.String	deviceId	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Message List Api Model >	

## PostAsync(QueryApiModel)

## Declaration

public Task<MessageListApiModel> PostAsync(QueryApiModel body)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
QueryApiModel	body	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Message List Api Model >	



## Class RulesController

Inheritance

System.Object

RulesController

 $Name space: \ Mmm.lot. Device Telemetry. Web Service. Controllers$ 

Assembly: cs.temp.dll.dll

Syntax

public sealed class RulesController : Controller

## Constructors

## RulesController(IRules)

Declaration

public RulesController(IRules ruleService)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IRules	ruleService	

## Methods

## DeleteAsync(String)

Declaration

public Task DeleteAsync(string id)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	

## Returns

TYPE		DESCRIPTION
System.Thr	eading. Tasks. Task	

## GetAsync(String)

Declaration

public Task<RuleApiModel> GetAsync(string id)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Rule Api Model >	

## 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

ТҮРЕ	NAME	DESCRIPTION
System.String	order	
System.Nullable < System.Int32 >	skip	
System.Nullable < System.Int32 >	limit	
System.String	groupld	
System.Nullable < System.Boolean >	includeDeleted	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Rule List Api Model >	

## PostAsync(String, RuleApiModel)

Declaration

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

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	template	
RuleApiModel	rule	

#### Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Rule Api Model >	

## PutAsync(String, RuleApiModel)

Declaration

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

ТУРЕ	NAME	DESCRIPTION
System.String	id	
RuleApiModel	rule	

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Rule Api Model >	



## Class StatusController

Inheritance

System.Object

StatusController

 $Name space: \ Mmm.lot. Device Telemetry. Web Service. Controllers$ 

Assembly: cs.temp.dll.dll

Syntax

public sealed class StatusController : ControllerBase

## Constructors

## StatusController(IStatusService)

Declaration

public StatusController(IStatusService statusService)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IStatusService	statusService	

## Methods

## GetAsync()

Declaration

public Task<StatusApiModel> GetAsync()

## Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Status Api Model >	

## Ping()

Declaration

public IActionResult Ping()

ТУРЕ	DESCRIPTION
IActionResult	



# Namespace Mmm.lot.Diagnostics.WebService.Controllers

Classes

 ${\bf Diagnostics Events Controller}$ 

StatusController



# Class DiagnosticsEventsController

Inheritance

System.Object

DiagnosticsEventsController

Namespace: Mmm.lot.Diagnostics.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

public class DiagnosticsEventsController : Controller

## Constructors

## Diagnostics Events Controller (IDiagnostics Client)

Declaration

public DiagnosticsEventsController(IDiagnosticsClient diagnosticsClient)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IDiagnosticsClient	diagnosticsClient	

## Methods

## Post(DiagnosticsEventModel)

Declaration

public StatusCodeResult Post(DiagnosticsEventModel diagnosticsEvent)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
Diagnostics Event Model	diagnosticsEvent	

ТҮРЕ	DESCRIPTION
StatusCodeResult	



## Class StatusController

Inheritance

System.Object

StatusController

Namespace: Mmm.lot.Diagnostics.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

public sealed class StatusController : ControllerBase

#### Constructors

## StatusController(IStatusService)

Declaration

public StatusController(IStatusService statusService)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IStatusService	statusService	

## Methods

## GetAsync()

Declaration

public Task<StatusApiModel> GetAsync()

## Returns

ТУРЕ	DESCRIPTION
Task <statusapimodel></statusapimodel>	

## Ping()

Declaration

public IActionResult Ping()

ТУРЕ	DESCRIPTION
IActionResult	



# Namespace Mmm.lot.loTHubManager.WebService.Controllers

Classes

DeploymentsController

Device Properties Controller

DevicesController

JobsController

ModulesController

StatusController



# Class DeploymentsController

Inheritance

System.Object

DeploymentsController

Namespace: Mmm.lot. Io T HubManager. WebService. Controllers

Assembly: cs.temp.dll.dll

Syntax

public class DeploymentsController : Controller

#### Constructors

## DeploymentsController(IDeployments)

Declaration

public DeploymentsController(IDeployments deployments)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IDeployments	deployments	

## Methods

## DeleteAsync(String, Boolean)

Declaration

public Task DeleteAsync(string id, bool isDelete = true)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	
System.Boolean	is Delete	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

## ExportDeploymentReport(String, Boolean)

Declaration

public Task<IActionResult> ExportDeploymentReport(string id, bool isLatest = true)

Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	
System.Boolean	isLatest	

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task <iactionresult></iactionresult>	

## GetAsync()

Declaration

public Task<DeploymentListApiModel> GetAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Deployment List Api Model >	

## GetAsync(String, Boolean, Boolean)

Declaration

public Task<DeploymentApiModel> GetAsync(string id, bool includeDeviceStatus = false, bool isLatest = true)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	
System.Boolean	include Device Status	
System.Boolean	isLatest	

## Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Deployment Api Model >	

## GetDeploymentImpactedDevices(String, String, Boolean)

Declaration

public Task<DeviceListApiModel> GetDeploymentImpactedDevices(string id, string query, bool isLatest = false)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String i	id	

ТУРЕ	NAME	DESCRIPTION
System.String	query	
System.Boolean	isLatest	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < DeviceList Api Model >	

## $GetDeploymentImpactedEdgeModules (String, \ String, \ Boolean)$

Declaration

public Task<TwinPropertiesListApiModel> GetDeploymentImpactedEdgeModules(string id, string query, bool isLatest = false)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	
System.String	query	
System.Boolean	isLatest	

## Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Twin Properties List Api Model >	

## PostAsync(DeploymentApiModel)

Declaration

public Task<DeploymentApiModel> PostAsync(DeploymentApiModel deployment)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
DeploymentApiModel	deployment	

## Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Deployment Api Model >	

## ReactivateAsync(String)

Declaration

public Task ReactivateAsync(string id)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task	



# Class DevicePropertiesController

Inheritance

System.Object

DevicePropertiesController

Name space: Mmm. Iot. Io T HubManager. WebService. Controllers

Assembly: cs.temp.dll.dll

Syntax

public class DevicePropertiesController : Controller

#### Constructors

## DevicePropertiesController(IDeviceProperties)

Declaration

public DevicePropertiesController(IDeviceProperties deviceProperties)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IDeviceProperties	deviceProperties	

## Methods

## GetAsync()

Declaration

public Task<DevicePropertiesApiModel> GetAsync()

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Device Properties Api Model >	



## Class DevicesController

Inheritance

System.Object

DevicesController

Namespace: Mmm.lot.loTHubManager.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)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IDevices	devices	
IDeviceService	deviceService	
IDeviceProperties	deviceProperties	

## Methods

## DeleteAsync(String)

Declaration

public Task DeleteAsync(string id)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	

## Returns

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task	

## GetDeviceAsync(String)

Declaration

public Task<DeviceRegistryApiModel> GetDeviceAsync(string id)

ТУРЕ	NAME	DESCRIPTION
System.String	id	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Device Registry Api Model >	

## GetDeviceDeploymentAsync(String)

Declaration

public Task<TwinPropertiesListApiModel> GetDeviceDeploymentAsync(string id)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Twin Properties List Api Model >	

## ${\sf GetDeviceFilesAsync(String)}$

Declaration

public Task<List<string>> GetDeviceFilesAsync(string id)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	

## Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < System. Collections. Generic. List < System. String > >	

## GetDevicesAsync(String)

Declaration

public Task<DeviceListApiModel> GetDevicesAsync(string query)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	query	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Device List Api Model >	

## $Invoke Device Method A sync (String,\ Method Parameter Api Model)$

Declaration

public Task<MethodResultApiModel> InvokeDeviceMethodAsync(string id, MethodParameterApiModel parameter)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	
MethodParameterApiModel	parameter	

#### Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Method Result Api Model >	

## PostAsync(DeviceRegistryApiModel)

Declaration

public Task<DeviceRegistryApiModel> PostAsync(DeviceRegistryApiModel device)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
DeviceRegistryApiModel	device	

## Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Device Registry Api Model >	

## PutAsync(String, DeviceRegistryApiModel)

Declaration

public Task<DeviceRegistryApiModel> PutAsync(string id, DeviceRegistryApiModel device)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	id	
DeviceRegistryApiModel	device	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Device Registry Api Model >	

## QueryDevicesAsync(String)

Declaration

public Task<DeviceListApiModel> QueryDevicesAsync(string query)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	query	

## Returns

ТУРЕ	DESCRIPTION
System.Threading.Tasks.Task < DeviceListApiModel >	

## SendCloudToDeviceAsync(String, String)

Declaration

public Task SendCloudToDeviceAsync(string id, string message)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	id	
System.String	message	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	



# Class JobsController

Inheritance

System.Object

JobsController

Namespace: Mmm. I ot. I o T HubManager. WebService. Controllers

Assembly: cs.temp.dll.dll

Syntax

public class JobsController : Controller

#### Constructors

#### JobsController(IJobs)

Declaration

public JobsController(IJobs jobs)

#### Parameters

ТҮРЕ	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

ТУРЕ	NAME	DESCRIPTION
System.Nullable < JobType >	jobType	
System.Nullable < JobStatus >	jobStatus	
System.Nullable < System.Int32 >	pageSize	
System.String	from	
System.String	to	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < System. Collections. Generic. I Enumerable < Job Api Model > >	

#### Declaration

public Task<JobApiModel> GetJobAsync(string jobId, bool? includeDeviceDetails, DeviceJobStatus?
deviceJobStatus)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	jobld	
System.Nullable < System.Boolean >	include Device Details	
System.Nullable < DeviceJobStatus >	deviceJobStatus	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Job Api Model >	

## Schedule A sync (Job Api Model)

Declaration

public Task<JobApiModel> ScheduleAsync(JobApiModel parameter)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
JobApiModel	parameter	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Job Api Model >	



## Class ModulesController

Inheritance

System.Object

ModulesController

Namespace: Mmm.lot.loTHubManager.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

public class ModulesController : Controller

#### Constructors

#### ModulesController(IDevices)

Declaration

public ModulesController(IDevices devices)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IDevices	devices	

#### Methods

## GetModuleTwinAsync(String, String)

Declaration

public Task<TwinPropertiesApiModel> GetModuleTwinAsync(string deviceId, string moduleId)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	deviceld	
System.String	moduleld	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Twin Properties Api Model >	

## GetModuleTwinsAsync(String)

Declaration

public Task<TwinPropertiesListApiModel> GetModuleTwinsAsync(string query)

Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	query	

## Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Twin Properties List Api Model >	

## Query Module Twins A sync (String)

Declaration

public Task<TwinPropertiesListApiModel> QueryModuleTwinsAsync(string query)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	query	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Twin Properties List Api Model >	



## Class StatusController

Inheritance

System.Object

StatusController

Name space: Mmm. Iot. Io T HubManager. WebService. Controllers

Assembly: cs.temp.dll.dll

Syntax

public sealed class StatusController : ControllerBase

#### Constructors

#### StatusController(IStatusService)

Declaration

public StatusController(IStatusService statusService)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IStatusService	statusService	

#### Methods

## GetAsync()

Declaration

public Task<StatusApiModel> GetAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Status Api Model >	

## Ping()

Declaration

public IActionResult Ping()

ТҮРЕ	DESCRIPTION
IActionResult	



# Namespace Mmm.lot.StorageAdapter.WebService.Controllers

Classes

StatusController

ValuesController



## Class StatusController

Inheritance

System.Object

StatusController

Name space: Mmm. Iot. Storage Adapter. WebService. Controllers

Assembly: cs.temp.dll.dll

Syntax

public sealed class StatusController : ControllerBase

#### Constructors

#### StatusController(IStatusService)

Declaration

public StatusController(IStatusService statusService)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IStatusService	statusService	

#### Methods

## GetAsync()

Declaration

public Task<StatusApiModel> GetAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Status Api Model >	

## Ping()

Declaration

public IActionResult Ping()

ТҮРЕ	DESCRIPTION
IActionResult	



# Class ValuesController

Inheritance

System.Object

ValuesController

Namespace: Mmm.lot. Storage Adapter. 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

ТҮРЕ	NAME	DESCRIPTION
IKeyValueContainer	container	
IKeyGenerator	keyGenerator	
ILogger <valuescontroller></valuescontroller>	logger	

#### Methods

Delete(String, String)

Declaration

public Task Delete(string collectionId, string key)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
System.String	collectionId	
System.String	key	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task	

## Get(String)

Declaration

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	collectionId	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Value List Api Model >	

## Get(String, String)

Declaration

public Task<ValueApiModel> Get(string collectionId, string key)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	collectionId	
System.String	key	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Value Api Model >	

## Post(String, ValueServiceModel)

Declaration

public Task<ValueApiModel> Post(string collectionId, ValueServiceModel model)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	collectionId	
ValueServiceModel	model	

#### Returns

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Value Api Model >	

## Put(String, String, ValueServiceModel)

Declaration

public Task<ValueApiModel> Put(string collectionId, string key, ValueServiceModel model)

ТҮРЕ	NAME	DESCRIPTION
System.String	collectionId	
System.String	key	
ValueServiceModel	model	

ТУРЕ	DESCRIPTION
System. Threading. Tasks. Task < Value Api Model >	



# Namespace Mmm.lot.TenantManager.WebService.Controllers

Classes

AlertingController

StatusController

TenantController

TenantReadyController



# Class AlertingController

Inheritance

System.Object

AlertingController

 $Namespace: \ Mmm.lot. Tenant Manager. Web Service. Controllers$ 

Assembly: cs.temp.dll.dll

Syntax

public class AlertingController : Controller

#### Constructors

AlertingController(IAlertingContainer, ILogger<AlertingController>)

Declaration

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

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IAlertingContainer	alerting Container	
ILogger <alertingcontroller></alertingcontroller>	logger	

#### Methods

#### AddAlertingAsync()

Declaration

public Task<StreamAnalyticsJobModel> AddAlertingAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Stream Analytics Job Model >	

## GetAlertingAsync(Boolean)

Declaration

public Task<StreamAnalyticsJobModel> GetAlertingAsync(bool createIfNotExists = false)

## Parameters

ТҮРЕ	NAME	DESCRIPTION
System.Boolean	createlfNotExists	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Stream Analytics Job Model >	

## RemoveAlertingAsync()

Declaration

public Task<StreamAnalyticsJobModel> RemoveAlertingAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Stream Analytics Job Model >	

## StartAsync()

Declaration

public Task<StreamAnalyticsJobModel> StartAsync()

## Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Stream Analytics Job Model >	

## StopAsync()

Declaration

public Task<StreamAnalyticsJobModel> StopAsync()

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Stream Analytics Job Model >	



## Class StatusController

Inheritance

System.Object

StatusController

Name space: Mmm. I ot. Tenant Manager. Web Service. Controllers

Assembly: cs.temp.dll.dll

Syntax

public sealed class StatusController : ControllerBase

#### Constructors

#### StatusController(IStatusService)

Declaration

public StatusController(IStatusService statusService)

#### Parameters

ТҮРЕ	NAME	DESCRIPTION
IStatusService	statusService	

#### Methods

## GetAsync()

Declaration

public Task<StatusApiModel> GetAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Status Api Model >	

## Ping()

Declaration

public IActionResult Ping()

ТҮРЕ	DESCRIPTION
IActionResult	



# Class TenantController

Inheritance

System.Object

TenantController

Namespace: Mmm.lot.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

ТУРЕ	NAME	DESCRIPTION
ITenantContainer	tenantContainer	
ILogger <tenantcontroller></tenantcontroller>	logger	

#### Methods

#### DeleteAsync(Boolean)

Declaration

public Task<DeleteTenantModel> DeleteAsync(bool ensureFullyDeployed = true)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.Boolean	ensureFullyDeployed	

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Delete Tenant Model >	

## GetAsync()

Declaration

public Task<TenantModel> GetAsync()

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Tenant Model >	

## GetTenantsAsync()

Declaration

public Task<UserTenantListModel> GetTenantsAsync()

#### Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < User Tenant List Model >	

## PostAsync()

Declaration

public Task<CreateTenantModel> PostAsync()

## Returns

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Create Tenant Model >	

## UpdateAsync(String, String)

Declaration

public Task<TenantModel> UpdateAsync(string tenantId, string tenantName)

## Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	tenantId	
System.String	tenantName	

ТҮРЕ	DESCRIPTION
System. Threading. Tasks. Task < Tenant Model >	



# Class TenantReadyController

Inheritance

System.Object

TenantReadyController

Namespace: Mmm. Iot. Tenant Manager.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

ТУРЕ	NAME	DESCRIPTION
ITenantContainer	tenantContainer	
ILogger <tenantreadycontroller></tenantreadycontroller>	logger	

#### Methods

#### GetAsync(String)

Declaration

public Task<bool> GetAsync(string tenantId)

#### Parameters

ТУРЕ	NAME	DESCRIPTION
System.String	tenantId	

ТҮРЕ	DESCRIPTION
System.Threading.Tasks.Task < System.Boolean >	