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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.

OPERATION GROUP	DESCRIPTION
Authorize	Log in or out and context operations.
Configuration	
SystemAdmin	
UserSettings	
UserTenant	
Status	

Azure APIs

TODO: List relevant Azure Services APIs.

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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
    -

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

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Prerequisites for working with APIs

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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	

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Authorize

Service: Identity Gateway

Operations

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

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Authorize - Authorize

Service: Identity Gateway

{TODO: Add Description}

```
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	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

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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	TYPE	DESCRIPTION
client_id	true	true	string	?
client_secret	true	true	string	?
scope	true	true	string	?

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

{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.eyJjbGllbnRdaWQiOiI5NWQzYzY2Mi0yM2VhLTRlMmQtOGQzZC1lYTI0NDg3MDY5MzQiLCJz
dWIiOiI5NWQzYzY2Mi0yM2VhLTRlNmQtOGQzZC1lYTI0NDg3MDY5MzQiLCJuYW1lIjoiOTVkM2M2NjItMjNlYS00ZTJkLThkM2QtZWEyNDQ4N
zA2OTM0IiwidHlwZSI6IkNsaWVudCBDcmVkZW50aWFscyIsImlhdCI6MTYwNDMwNTc0OCwidGVuYW50IjoiMjMzYTFjYTItNjg1NS00M2M1LT
hiOWMtYzdmODVhMWRkNTIwIiwicm9sZSI6ImFkbWluIiwiaXNfc3lzdGVtQWRtaW4iOmZhbHNlLCJhdmFpbGFibGVfdGVuYW50cyI6IjIzM2E
xY2EyLTY4NTUtNDNjNS04YjljLWM3Zjg1YTFkZDUyMCIsImV4cCI6MTYwNjg5Nzc0OCwiaXNzIjoiaHR0cHM6Ly9jcNsaW90LWFzcy1kZXYu
Y2VudHJhbHVzLmNsb3VkYXBwLmF6dXJlLmNvbS9hdXRoIiwiYXVkIjoiSW9UUGxhdGZvcm0ifQ.oGTvV4NH5qL4qf8xtWChzn4GCWeaBV8Z9R
wXmInK6V9mE3kSk2LqPJg9x7OVPZwHOaQkUcEh2_e9IZKOtwF9JXgz9ZLeFedpBSoLQPAtshMj1YBIXw64MGnuxViB7NoETjxMYsS3cD63_xS
SIq2NgjAixHXeT5yONi5SNKIlScRVv3fytLbWCZou2oWoThTIHUYb-A-plaBWjyLfzhCnSJboolFXWw5QbMZcIUNUvg8yJ1oR7M3-
OWtHnKdo7vjkSnl5ASe0_dWXaX0LrYBmNUaPek9xG3xTYekhc8rNvf5hL1k7F9VwRVBysPEnaZcnbXrsOvsQ_MmAk4hcuYaDtA

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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	TYPE	DESCRIPTION
200 OK	TODO: Response Object	

Security

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

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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	TYPE	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

eyJhbGciOiJSUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiIzZTMwZjMwMS00ZjU3LTRiM2UtOTQ5YS0zZmY4ZTkzODcwYjUiLCJuYW1lIjoi
Vmlzd2FuYWRoIEtvdGhhIENXIiwiaWF0IjoxNjA0Mjk2ODIyLCJ0ZW5hbnQiOiIyMzNhMWNhMi02ODU1LTQzYzUtOGI5Yy1jN2Y4NWExZGQ1M
jAiLCJyb2xlIjoiYWRtaW4iLCJpc19zeXN0ZW1BZG1pbiI6dHJ1ZSwiYXZhaWxhYmxlX3RlbmFudHMiOlsiMjA5ZDdmNzktMzlhYS00ZTJhLT
hlOWMtNTZmMDRmNzYzM2Y5IiwiMjMzYTFjYTItNjg1NS00M2M1LThiOWMtYzdmODVhMWRkNTIwIiwiYTk0MDM1YTktZTFjNS00YmIxLWI3Mzk
tM2I2OTQ5ZTU4NjY0IiwiZjI4NDM0NTEtNWEzNC00NTg5LTk4YmItMGE5YTVmZmUyOGNlIl0sImV4cCI6MTYwNjYzMTEzMSwiaXNzIjoiaHR0
cHM6Ly9jcnNaaW90LWVycy1kZXYuY2VudHJhbHVzLmNsb3VkYXBwLmF6dXJlLmNvbS9hdXRoIiwiYXVkIjoiSW9UUGxhdGZvcm0ifQ.jUCYmO
uHYM4fkNObCQ6ObAvQ--H9uDrNcgcsojuwhEChPXz1anlaGzPuRZpfK7rhSJzwuC-
jrBLf23nL7pxkQA2mUV7oahKVf6WVhOea7012HnWIk3mqr_l3lDyCNjQp9WH2Wz-
tqG2LZjh7zutzCmBBAvXd8gyBMqqOwXAVU6yxveMxhmPhyk6LwJSc2fGxsprxNTACHNq89KETQo742peRMo95Xj3dobjRBiKbmglvwuEy2Fkz
sNjq25ikj6JOsQsgtraFABa35mdGqhLrikVuzmsFMDK0U6-l_-ot_c4FSPN9Dc_0oLSL5sB6tRW-zg6rPhhUu_ISLyHh0J51lw

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POST Connect Callback

This Method executes the callback method

Http Request

POST connect/callback

Request headers

HEADER	VALUE
Content-Type	application/json

Responses

NAME	TYPE	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

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Configuration

Service: Identity Gateway

Operations

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

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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

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System Admin

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

Operations

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User Settings

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

Operations

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User Tenant

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

Operations

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Status

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

Operations

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

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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.

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"
}
```

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Namespace Mmm.Iot.Config.WebService.Controllers

Classes

ConfigTypesController

DeviceGroupController

PackagesController

SeedController

SolutionSettingsController

StatusController

UserSettingsController

Class ConfigTypesController

System.Object

ConfigTypesController

System.Object.ToString()

System.Object.Equals(System.Object)

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

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

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

Namespace: Mmm.Iot.Config.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

```
public class ConfigTypesController
```

Constructors

ConfigTypesController(IStorage)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
IStorage	storage	

Methods

GetAllConfigTypesAsync()

Declaration

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

Returns

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

Class DeviceGroupController

Inheritance

System.Object

DeviceGroupController

Namespace: Mmm.Iot.Config.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

```
public class DeviceGroupController : Controller
```

Constructors

DeviceGroupController(IStorage)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
IStorage	storage	

Methods

CreateAsync(DeviceGroupApiModel)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
DeviceGroupApiModel	input	

Returns

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

DeleteAsync(String)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

GetAllAsync()

Declaration

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

Returns

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

GetAsync(String)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

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

UpdateAsync(String, DeviceGroupApiModel)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	
DeviceGroupApiModel	input	

Returns

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

Class PackagesController

Inheritance

System.Object

PackagesController

Namespace: Mmm.Iot.Config.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

```
public class PackagesController : Controller
```

Constructors

PackagesController(IStorage)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
IStorage	storage	

Fields

InactivePackageTag

Declaration

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

Field Value

TYPE	DESCRIPTION
System.String	

Methods

ActivatePackageAsync(String)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

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

AddTagAsync(String, String)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	
System.String	tag	

Returns

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

DeactivatePackageAsync(String)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

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

DeleteAsync(String)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

GetAsync(String)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

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

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

Declaration

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

Parameters

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

Returns

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

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

Declaration

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

Parameters

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

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

Returns

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

RemoveTagAsync(String, String)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	
System.String	tag	

Returns

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

RemoveTagsAsync(String)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

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

UploadFileAsync(IFormFile)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
IFormFile	uploadedFile	

Returns

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

Class SeedController

Inheritance

System.Object

SeedController

Namespace: Mmm.Iot.Config.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

```
public class SeedController : Controller
```

Constructors

SeedController(ISeed)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
ISeed	seed	

Methods

PostAsync()

Declaration

```
public Task PostAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

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Class SolutionSettingsController

Inheritance

System.Object

SolutionSettingsController

Namespace: Mmm.Iot.Config.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

```
public class SolutionSettingsController : Controller
```

Constructors

SolutionSettingsController(IStorage, IActions)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
IStorage	storage	
IActions	actions	

Methods

GetActionsSettingsAsync()

Declaration

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

Returns

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

GetDefaultFirmwareSettingAsync()

Declaration

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

Returns

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

GetLogoAsync()

Declaration

```
public Task GetLogoAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

GetThemeAsync()

Declaration

```
public Task<Theme> GetThemeAsync()
```

Returns

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

SetDefaultFirmwareSettingAsync(DefaultFirmwareSettingApiModel)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
DefaultFirmwareSettingApiModel	settingModel	

Returns

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

SetLogoAsync()

Declaration

```
public Task SetLogoAsync()
```

Returns

TYPE	DESCRIPTION
System.Threading.Tasks.Task	

SetThemeAsync(Theme)

Declaration

```
public Task<Theme> SetThemeAsync(Theme theme)
```

Parameters

TYPE	NAME	DESCRIPTION
Theme	theme	

Returns

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

Returns

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

Class StatusController

Syntax

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

Constructors

StatusController(IStatusService)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
IStatusService	statusService	

Methods

GetAsync()

Declaration

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

Returns

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

Ping()

Declaration

```
public IActionResult Ping()
```

Returns

TYPE	DESCRIPTION
IActionResult	

Class UserSettingsController

Inheritance

System.Object

UserSettingsController

Namespace: Mmm.Iot.Config.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

```
public class UserSettingsController : Controller
```

Constructors

UserSettingsController(IStorage)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
IStorage	storage	

Methods

GetUserSettingAsync(String)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

Returns

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

SetUserSettingAsync(String, Object)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

TYPE	NAME	DESCRIPTION
System.Object	setting	

Returns

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

Namespace Mmm.Iot.DeviceTelemetry.WebService.Controllers

Classes

AlarmsByRuleController

AlarmsController

DeviceFilesController

MessagesController

RulesController

StatusController

Class AlarmsByRuleController

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>	

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

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	
QueryApiModel	body	

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Class AlarmsController

System.Object

AlarmsController

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

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	

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Returns

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

Returns

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

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Class MessagesController

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

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.Diagnostics.WebService.Controllers

Classes

DiagnosticsEventsController

StatusController

Class DiagnosticsEventsController

Inheritance

System.Object

DiagnosticsEventsController

Namespace: Mmm.Iot.Diagnostics.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

```
public class DiagnosticsEventsController : Controller
```

Constructors

DiagnosticsEventsController(IDiagnosticsClient)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
IDiagnosticsClient	diagnosticsClient	

Methods

Post(DiagnosticsEventModel)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
DiagnosticsEventModel	diagnosticsEvent	

Returns

TYPE	DESCRIPTION
StatusCodeResult	

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Class StatusController

Inheritance

System.Object

StatusController

Namespace: Mmm.Iot.Diagnostics.WebService.Controllers

Assembly: cs.temp.dll.dll

Syntax

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

Constructors

StatusController(IStatusService)

Declaration

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

Parameters

TYPE	NAME	DESCRIPTION
IStatusService	statusService	

Methods

GetAsync()

Declaration

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

Returns

TYPE	DESCRIPTION
Task<StatusApiModel>	

Ping()

Declaration

```
public IActionResult Ping()
```

Returns

TYPE	DESCRIPTION
IActionResult	

Namespace Mmm.Iot.IoTHubManager.WebService.Controllers

Classes

[DeploymentsController](#)

[DevicePropertiesController](#)

[DevicesController](#)

[JobsController](#)

[ModulesController](#)

[StatusController](#)

Class DeploymentsController

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	

Parameters

TYPE	NAME	DESCRIPTION
System.String	id	

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>	

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Class DevicesController

Inheritance

System.Object

DevicesController

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.StorageAdapter.WebService.Controllers

Classes

StatusController

ValuesController

Class StatusController

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	

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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>	

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Namespace Mmm.Iot.TenantManager.WebService.Controllers

Classes

AlertingController

StatusController

TenantController

TenantReadyController

Class AlertingController

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

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	

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Class TenantController

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>	