SOLIDWORKS Manage API

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SOLIDWORKS Manage® API

Welcome to the SOLIDWORKS Manage® API. The API will be supported on 2026 SP0 version databases or newer. In order to access the API, access is required to a SOLIDWORKS Manage® Professional, Contributor, CAD Editor or Universal (Processor) license.

SOLIDWORKS Manage® provides a unique set of product lifecycle management tools to enable product information to be distributed to different areas of a business. It is seamlessly integrated with the file management capabilities of SOLIDWORKS PDM Professional. It adds powerful BOM, project, process, document and item management capabilities along with interactive dashboards and reports, via desktop and web interfaces.
The SOLIDWORKS Manage® web service is an Application Programming Interface (API) which allows you to read and write information in SOLIDWORKS Manage®. The API contains functions that you can call from many programming languages. Examples have been provided in C# and VB.NET to get you started. These functions provide direct access to the SOLIDWORKS Manage® environment. It is assumed that you are familiar with at least one of these programming languages.

- **API Endpoint**

  http://localhost:8888/

  Notes:
  - Please note that this address may depend on how the IIS server has been configured.
  - It is very important to use SSL (https) for this site especially if it will be accessed outside of this PC/Server.
  - "localhost" should be replaced with the PC/Server IP or DNS name to be accessed outside of this PC/Server.

Authentication

Authentication section contains methods for getting license and to authenticate users.

- License
- Authenticate

Get License

To get licenses use a GET call to the following URL:

```
http://localhost:8888/Api/Authentication/License
```

- **Curl example:**

```
curl \
-X Get http://localhost:8888/api/Authentication/License \
```

- **Result example:**

```
[
 {
  "id": 191,
  "name": "Contributor"
 },
 {
  "id": 190,
  "name": "Editor"
 }
]
```

Authenticate

To get the authorization access token use a POST call to the following URL:

```
http://localhost:8888/Api/Authentication/Authenticate
```

- **Parameters:**

Field	Parameter Type	Type	Description
username	query	string	Your username.
password	query	string	Your password.
licenseId	query	integer	License Id. Get from License method (http://localhost:8888/api/Authentication/License).

- **Curl Example:**

```
curl \
  -X POST 'http://localhost:8888/api/Authentication/Authenticate
       ?username=test&password=test&licenseId=191' \
```

- **Result Example:**

```
[
 {
  "Access_token": "string",
  "Refresh_token": "string",
  "Expires_in": "2024-11-21T14:29:33.752Z",
  "Token_type": "string",
  "Raw_claim": "string",
  "Success": true,
  "Message": "string"
 }
]
```

Bill of Materials (BOM)

This section allows managing BOMs, configurations, views, variants, versions and formats. It enables the ability to add, remove or change values in BOMs.

- Configurations
- Versions
- Variants
- Views
- View Format
- Fields
- Records
- Where Used (top levels)
- Where Used (single level)
- Change Source Configuration
- Change BOM quantity
- Change Markers
- Add BOM Text Lines
- Add BOM Items
- Remove BOM Items
- Save BOM Changes

Configurations

This method gets all configurations for a specific BOM record.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/BOM/Configurations
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_guid	query	string	Record GUID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/BOM/Configurations
    ?object_id=111&record_guid=697dasdc6a-1a5b-4901-8738-eads3f951b414
```

- **Result Example:**

```
[
 {
  "configuration_name": "string",
  "record_guid": "string"
 }
]
```

Versions

This method gets all versions for a specific BOM record.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/BOM/Versions
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/BOM/Versions
    ?object_id=111&record_id=521591
```

- **Result Example:**

```
[
 {
  "version_index": 0,
  "revision": "string"
 }
]
```

Variants

This method gets BOM variants for a specific object.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/BOM/Variants
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/BOM/Variants
  ?object_id=180
```

- **Result Example:**

```
[
 {
  "config_id": "string",
  "config_label": "string",
  "config_system_name": "string",
  "is_enabled": true,
  "is_default": true,
  "list_order": 0
 }
]
```

Views

This method gets BOM views for a specific BOM.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/BOM/Views
```

- **Parameters:**

Field	Parameter Type	Type	Description
config_id	query	long	Configuration ID. Get from Variants method (http://localhost:8888/api/BOM/Variants).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/BOM/Views
    ?config_id=111
```

- **Result Example:**

```
[
 {
  "view_id": 0,
  "view_name": "string",
  "is_default": true
 }
]
```

View Format

This method gets two available format types, **Tree View** or **Flat View**.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/BOM/ViewFormat
```

- **Parameters:**

Field	Parameter Type	Type	Description
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/BOM/ViewFormat
```

- **Result Example:**

```
[
 {
  "id": 0,
  "display_name": "string"
 }
]
```

Fields

This method gets fields for a specific BOM.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/BOM/Fields
```

- **Parameters:**

Field	Parameter Type	Type	Description
config_id	query	long	Configuration ID. Get from Variants method (http://localhost:8888/api/BOM/Variants).

view_name	query	string	View Name. Get from Views method (http://localhost:8888/api/BOM/Views).
format_view_id	query	long	View Format Id. Get from View Format method (http://localhost:8888/api/BOM/ViewFormat).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/BOM/Fields
    ?config_id=111&view_name=Basic&format_view_id=111
```

- **Result Example:**


```
[
 {
  "column_id": 0,
  "field_id": 0,
  "is_system": true,
  "is_visible": true,
  "system_name": "string",
  "display_name": "string",
  "type_id": 0,
  "order_index": 0,
  "action": 0
 }
]
```


Records

This method gets BOM records for a specific record.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/BOM/Records
```

- **Parameters:**

Field	Parameter Type	Type	Description
config_id	query	long	Configuration ID. Get from Variants method (http://localhost:8888/api/BOM/Variants).
object_id	query	long	Object ID.
record_id	query	long	Record ID.
version_index	query	integer	Version Index. Get from Versions method (http://localhost:8888/api/BOM/Versions).
get_latest	query	boolean	Get Latest version, true or false.
level	query	integer	Level.
format_view_id	query	long	View Format ID. Get from View Format method (http://localhost:8888/api/BOM/FormatView).
view_name	query	string	View Name. Get from Views method (http://localhost:8888/api/BOM/Views).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/BOM/Records
     ?
config_id=111&object_id=111&record_id=521111&version_index=0&get_latest=true&level=2&for
mat_view_id=111&view_name=test
```

- **Result Example:**

```
[
 {
  "column_id": 0,
  "field_id": 0,
```

```
    "is_system": true,
    "is_visible": true,
    "system_name": "string",
    "display_name": "string",
    "type_id": 0,
    "order_index": 0,
    "action": 0
  }
]
```


Where Used (top levels)

This method gets the first two levels of parents for a specific record.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/BOM/WhereUsed
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID.
version	query	integer	Version. This is optional. The default value is -1.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/BOM/WhereUsed
    ?object_id=111&record_id=11111
```

- **Result Example:**


```
[
```

```
 {
  "revision": "string",
  "system_obj_nbs": "string",
  "system_obj_description": "string",
  "folder": "string",
  "version_index": 0,
  "checked_status": 0,
  "sub_object_guid": "string",
  "is_visibility_normal": true,
  "max_version": 0,
  "file_name": "string",
  "configuration": "string",
  "bom_source": "string",
  "record_id": 0,
  "object_id": 0,
  "record_guid": "string",
  "parent_object_id": 0,
  "parent_guid": "string",
  "object_type": 0,
  "is_latest": 0,
  "parent_record_id": 0,
  "parent_record_guid": "string",
  "level": 0,
  "key_id": "string",
  "parent_key_id": 0,
  "p_key_id": "string",
  "key_order_id": 0,
  "parent_version": 0,
  "date_modified": "string",
  "is_visible": true,
  "has_children": true,
  "grid_record_guid": "string"
 }
]
```


Where Used (single level)

This method gets a single level of parents for the selected record. It is ideal to be used after the Where Used (top levels) to get other levels one by one. However if the parent key is known, it can be used at any time.

Use a **GET** call on the following URL:

http://localhost:8888/Api/BOM/WhereUsedFromParentKey

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID.
version	query	integer	Version (Optional). The default value = -1.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
 X GET -H "Authorization:{token}" http://localhost:8888/api/BOM/WhereUsedFromParentKey
    ?parent_key=8870-e7037640c5eb&object_id=111&record_id=111111
```

- **Result Example:**


```
[
 {
  "revision": "string",
  "system_obj_nbs": "string",
  "system_obj_description": "string",
  "folder": "string",
  "version_index": 0,
  "checked_status": 0,
  "sub_object_guid": "string",
  "is_visibility_normal": true,
  "max_version": 0,
  "file_name": "string",
  "configuration": "string",
  "bom_source": "string",
  "record_id": 0,
  "object_id": 0,
  "record_guid": "string",
  "parent_object_id": 0,
  "parent_guid": "string",
```

```
    "object_type": 0,
    "is_latest": 0,
    "parent_record_id": 0,
    "parent_record_guid": "string",
    "level": 0,
    "key_id": "string",
    "parent_key_id": 0,
    "p_key_id": "string",
    "key_order_id": 0,
    "parent_version": 0,
    "date_modified": "string",
    "is_visible": true,
    "has_children": true,
    "grid_record_guid": "string"
  }
]
```


Change Source Configuration

This method allows changing the BOM Source for one or more items in the BOM. Note that manual (text lines) items do not have a BOM source.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/BOM/ChangeSourceDefaultConfiguration
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_id	body	long	Record ID.
config_instance_ids	body	List<long>	Configuration Instance IDs. Get from Records method (http://localhost:8888/api/BOM/Records).
config_label	body	integer	View Format ID. Get from Variants method (http://localhost:8888/api/BOM/Variants).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
 -X POST "http://localhost:8888/api/BOM/ChangeSourceDefaultConfiguration" \
   -H "Authorization: {token}" \
   -H "Content-Type: application/json" \
   -d '{
      "object_id": 123,
      "record_id": 123,
      "config_instance_ids": [1, 2, 3],
      "config_label": "test"
   }'
```

- **Result Example:**

```
[
     {
        "Success": "boolean",
        "Message": "string",
        "Data": object,
        "CustomAction": Dictionary<object, object> ,
        "CustomAttributes":Dictionary<object, object>
     }
  ]
```

Change BOM Quantity

This method allows changing the BOM Quantity for one or more items in the BOM.

Use a **POST** call on the following URL:

```
http://localhost:8888/Api/BOM/ChangeQuantity
```

- **Parameters:**

Field	Parameter	Type	Description

	Type		
object_id	body	long	Object ID.
record_id	body	long	Record ID.
config_id	body	long	Configuration ID. Get from Variants method (http://localhost:8888/api/BOM/Variants).
config_instance_ids	body	List<long>	Configuration Instance IDs. Get from Records method (http://localhost:8888/api/BOM/Records).
quantity	body	double	Quantity.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
 -X POST "http://localhost:8888/api/BOM/ChangeQuantity" \
   -H "Authorization: {token}" \
   -H "Content-Type: application/json" \
   -d '{
      "object_id": 123,
      "record_id": 123,
      "config_id":123,
      "config_instance_ids": [1, 2, 3],
      "quantity":1
   }'
```

- **Result Example:**

```
[
     {
       "Success": "boolean",
       "Message": "string",
       "Data": object,
       "CustomAction": Dictionary<object, object> ,
       "CustomAttributes":Dictionary<object, object>
     }
  ]
```

Change Markers

This method allows changing the BOM Markers.

Use a **POST** call on the following URL:

```
http://localhost:8888/Api/BOM/ChangeMarkers
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_id	body	long	Record ID.
config_id	body	long	Configuration ID. Get from Variants method (http://localhost:8888/api/BOM/Variants).
marker_update_option	body	integer	Marker update options: 1=Top Level only, 3=All levels.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
 -X POST "http://localhost:8888/api/BOM/ChangeMarkers" \
   -H "Authorization: {token}" \
   -H "Content-Type: application/json" \
   -d '{
         "object_id": 123,
         "record_id": 123,
         "config_id":123,
         "marker_update_option":1
     }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
 ]
```

Add BOM Text Lines

This method allows adding Text / Manual lines to a BOM.

Use a **POST** call on the following URL:

```
http://localhost:8888/Api/BOM/AddTextLineBom
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_id	body	long	Record ID.
config_id	body	long	Configuration ID. Get from Variants method (http://localhost:8888/api/BOM/Variants).
view_name	body	string	View Name. Get from Views method (http://localhost:8888/api/BOM/Views).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
 -X POST "http://localhost:8888/api/BOM/AddTextLineBom" \
   -H "Authorization: {token}" \
```

```
-H "Content-Type: application/json" \
-d '{
      "object_id": 123,
      "record_id": 123,
      "config_id":123,
      "view_name":"test",
 }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
]
```

Add BOM Items

This method allows adding items to a BOM. Items can come from different objects.

Use a **POST** call on the following URL:

```
http://localhost:8888/Api/BOM/AddItemsInBom
```

- **Parameters:**

Field	Parameter Type	Type	Description
parent_object_id	body	long	Parent Object ID (BOM Object).
parent_record_id	body	long	Parent Record ID (BOM Object).
child_object_id	body	long	Child Object ID (Item to be added).
child_record_id	body	long	Child Record ID (Item to be added).
config_id	body	long	Configuration ID. Get from Variants method

			(http://localhost:8888/api/BOM/Variants).
view_name	body	string	View Name. Get from Views method (http://localhost:8888/api/BOM/Views).
quantity	body	double	Quantity.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
 -X POST "http://localhost:8888/api/BOM/AddItemsInBom" \
   -H "Authorization: {token}" \
   -H "Content-Type: application/json" \
   -d '{
         "parent_object_id": 123,
         "parent_record_id": 123,
         "child_object_id": 123,
         "child_record_id": 123,
         "config_id":123,
         "view_name":"test",
         "quantity":1
     }'
```

- **Result Example:**

```
[
     {
       "Success": "boolean",
       "Message": "string",
       "Data": object,
       "CustomAction": Dictionary<object, object> ,
       "CustomAttributes":Dictionary<object, object>
     }
  ]
```

Remove BOM Items

This method allows removing items from a BOM.

Use a **POST** call on the following URL:

```
http://localhost:8888/Api/BOM/RemoveItemsBom
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_id	body	long	Record ID.
config_instance_ids	body	List<long>	Configuration Instance IDs. Get from Records method (http://localhost:8888/api/BOM/Records).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
-X POST "http://localhost:8888/api/BOM/RemoveItemsBom" \
   -H "Authorization: {token}" \
   -H "Content-Type: application/json" \
   -d '{
         "object_id": 123,
         "record_id": 123,
         "config_instance_ids":[1,2,3]
      }'
```

- **Result Example:**

```
[
      {
         "Success": "boolean",
         "Message": "string",
         "Data": object,
         "CustomAction": Dictionary<object, object> ,
         "CustomAttributes":Dictionary<object, object>
```

```
    }
  ]
```

Save BOM Changes

This method allows saving BOM changes. Note that users can only change columns for which they have the necessary permissions for.

Use a **POST** call on the following URL:

```
http://localhost:8888/Api/BOM/SaveBomChanges
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_id	body	long	Record ID.
config_id	body	long	Configuration ID. Get from Variants method (http://localhost:8888/api/BOM/Variants).
version_index	body	integer	Version Index. Get from Versions method (http://localhost:8888/api/BOM/Versions).
view_name	body	string	View Name. Get from Views method (http://localhost:8888/api/BOM/Views).
list_items	body	List<BatchEditData>	**BatchEditData** is a class with properties: Name (configInstanceId): string Value (config_instance_id): string CustomProperties: List<BatchEditObjectsData> **BatchEditObjectsData** is a class with properties: Id: long Name: string Value: string TypeId: integer AllowMultipleItems: boolean IsReference: boolean IsMapped: boolean

authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
-X POST "http://localhost:8888/api/BOM/SaveBomChanges" \
   -H "Authorization: {token}" \
   -H "Content-Type: application/json" \
   -d '{
      "object_id": 123,
      "record_id": 123,
      "config_id":123,
      "version_index":1,
      "view_name":"test",
      "list_items":[{
         "Name":"test",
         "Value":"test",
         "CustomProperties":[{
               "Id":1,
               "Name":"test",
               "Value":"test",
               "TypeId":1,
               "AllowMultipleItems":false,
               "IsReference":false,
               "IsMapped":false
            }]
        }],
   }'
```

- **Result Example:**

```
[
      {
         "Success": "boolean",
         "Message": "string",
         "Data": object,
         "CustomAction": Dictionary<object, object> ,
         "CustomAttributes":Dictionary<object, object>
      }
   ]
```

Files

This section deals with physical files.

- File Path
- File Version
- Primary File
- Export Templates
- Export Files with Templates
- Export Related Files (All)
- Export Related Files (Specific)

File Path

This method gets the path where files will be downloaded for a specific Object.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/File/FilePath
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/File/FilePath
    ?object_id=111
```

- **Result Example:**

```
string: ""
```

File Version

This method gets all file versions of a specific record's primary file.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/File/FileVersion
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/File/FileVersion
    ?object_id=111&record_id=111111
```

- **Result Example:**

```
[
 {
  "version": 0,
  "revision": "string"
 }
]
```

Primary File

This method gets the primary file.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/File/PrimaryFile
```

- **Parameters:**

Field	Parameter Type	Type	Description
record_id	query	long	Record ID.
object_id	query	long	Object ID.
file_version	query	integer	File Version. Get from File Version method (http://localhost:8888/api/File/FileVersion).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/File/PrimaryFile
    ?record_id=11111&object_id=111&file_version=25
```

- **Result Example:**

HttpResponseMessage

Export Templates

This method gets all the system configured export templates (as configured in Administration > Advanced > Import/Export).

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/File/ExportTemplates
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/File/ExportTemplates
     ?object_id=111
```

- **Result Example:**

```
[
  {
    "TemplateId": 0,
    "TemplateName": "string",
    "Extensions": "string"
  }
]
```

Export Files with Templates

This method exports all files related to the selected record using a specific Export Template.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/File/TemplateFiles
```

- **Parameters:**

Field	Parameter Type	Type	Description
record_id	query	long	Record ID.
object_id	query	long	Object ID.
templates_id	query	long	File Version. Get from Export Templates method (http://localhost:8888/api/File/ExportTemplates).

authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/File/TemplateFiles
     ?record_id=1111&object_id=111&template_id=6
```

- **Result Example:**

HttpResponseMessage

Export Related Files (All)

This method exports all related files for a specific record.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/File/ExportRelatedFiles
```

- **Parameters:**

Field	Parameter Type	Type	Description
record_id	query	long	Record ID.
object_id	query	long	Object ID.
get_all_revisions	query	boolean	Get all revisions (optional). The default value = false.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/File/ExportRelatedFiles
     ?record_id=111111&object_id=111&get_all_revisions=false
```

- **Result Example:**

HttpResponseMessage

Export Related Files (Specific)

This method exports specific related files for a specific record.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/File/ExportRelatedFilesByIds
```

- **Parameters:**

Field	Parameter Type	Type	Description
record_id	query	long	Record ID.
object_id	query	long	Object ID.
file_ids	query	string	File IDs can be in this format "111,123,122". Get from Related_Files method (http://localhost:8888/api/Objects/RelatedFiles?object_id=111&record_id=111111&show_all_revisions=true).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/File/ExportRelatedFilesByIds
     ?record_id=11111&object_id=111&file_ids=111,123,122"
```

- **Result Example:**

  HttpResponseMessage

Objects

This section deals with all object related methods, such as System Modules, Objects, Structures, Records, References, etc.

- Modules
- Objects
- Object by ID
- Object by System Name
- Object Structure
- Object Tree
- Object Records
- Object Records Advanced Search
- Object Records Values
- Object Field Groups
- Object Field Groups by Object ID
- Object Field Group by IDs
- Special Object Sections
- Simple Search Fields
- Recent
- Shortcuts
- Reference Folder
- Reference Records
- Related Files
- Add related files

- Add References
- Create Linked Records

Modules

This method gets all system modules, e.g. Processes, Projects, Records, etc.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/Modules
```

- **Parameters:**

Field	Parameter Type	Type	Description
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/Modules
```

- **Result Example:**

```
[
 {
  "Id": 0,
  "Key": "string",
  "Name": "string"
 }
]
```

Objects

This method gets all objects (based on user permissions).

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/Objects
```

- **Parameters:**

Field	Parameter Type	Type	Description
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/Objects
```

- **Result Example:**

```
[
 {
  "id": 0,
  "system_name": "string",
  "display_name": "string",
  "object_type": 0
 }
]
```

Object by ID

This method gets a specific object using the ID (based on user permissions).

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ObjectById
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ObjectById
    ?object_id=111
```

- **Result Example:**

```
[
 {
  "id": 0,
  "system_name": "string",
  "display_name": "string",
  "object_type": 0
 }
]
```

Object by System Name

This method gets a specific object by system name (based on user permissions).

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ObjectBySystemName
```

- **Parameters:**

Field	Parameter Type	Type	Description
system_name	query	string	System Name. Get from Object by ID method (http://localhost:8888/api/Objects/ObjectById).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ObjectBySystemName
    ?system_name=1111
```

- **Result Example:**

```
[
 {
  "id": 0,
  "system_name": "string",
  "display_name": "string",
  "object_type": 0
 }
]
```

Object Structure

This method gets all nodes; objects, sub-folders and filters, for a specific module such as Documents, Processes, etc. When a level is specified it will get only specific levels instead of all the data. Additionally, you can specify a Section ID to retrieve a specific element within a section.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ObjectStructure
```

- **Parameters:**

Field	Parameter Type	Type	Description
module_id	query	long	Module ID. Get from Modules method (http://localhost:8888/api/Objects/Modules).
section_id	query	string	Section ID (Optional). Default value = 0. This parameter is of type string because it can be a compound value from upper and lower levels especially when using filters.
level	query	integer	Level (Optional). Default value = 2.
object_id	query	long	Object ID (Optional). Default value = -1.
is_from_outlook	query	boolean	(Optional - default false).
expanded_section_id	query	string	(Optional - default is empty)
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ObjectStructure
  ?
module_id=111&amp;#38;section_id=filter1117&amp;#38;level=2&amp;#38;object_id=111&amp;#38;is_from_outlook=false&amp;#38;expanded_section_id=""
```

- **Result Example:**


```
[
 [
  {
   "object_id": 0,
   "description": "string",
   "is_filter": true,
   "object_type": 0,
   "section_id": "string",
   "section_name": "string",
   "parent_id": "string",
   "level": 0,
   "group_object_id": 0,
   "has_children": true,
   "sub_object_guid": "string",
   "image_index":0
  }
 ]
]
```


Object Tree

Get all nodes for a specific object; the root object, sub-folders and filters.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ObjectTree
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ObjectTree
   ?object_id=111
```

- **Result Example:**


```
[
 [
  {
   "object_id": 0,
   "description": "string",
   "is_filter": true,
   "object_type": 0,
   "section_id": "string",
   "section_name": "string",
   "parent_id": "string",
   "level": 0,
   "group_object_id": 0,
   "has_children": true,
   "sub_object_guid": "string",
   "image_index":0
  }
 ]
]
```


Object Records

This method gets Records from a specific Object. It uses a simple search string in multiple fields.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ObjectRecords
```

- **Parameters:**

Field	Parameter	Type	Description

	Type		
object_id	query	long	Object ID.
show_all	query	boolean	Show All records (Optional). Default = false
include_subfolders	query	boolean	Include Subfolders (Optional). Default = false
include_custom_fields	query	boolean	Determines whether custom fields should be included in the response. When set to true (default), the API returns both system and custom fields. When set to false, only the system-defined fields are included. This parameter is optional and is useful for optimizing performance or limiting data when custom fields are not required.
simple_text	query	string	Simple text. This is text to perform a simple search (Optional). Default =""
fields_name	query	string	One or more fields to search into using the simple text (Optional). Default = "". E.g.: _System_ObjNBS, _System_ObjDescription
page_number	query	integer	Page Number (Optional). Specifies the page number to display. Default = 1.
page_size	query	integer	Page Size (Optional). Default = 100. Limits the number of records per page.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
    X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ObjectRecords
    ?object_id=111&show_all=true&include_subfolders=true&include_custom_fields=true
    &simple_text=test&fields_name=_System_Test
    &page_number=1&page_size=100
```

- **Result Example:**


```
{
 "records": [
   {
    "object_id": 0,
    "record_id": 0,
    "object_type": 0,
    "record_guid": "string",
```

```
    "record_fields": [
      {
       "system_name": "string",
       "system_description": "string",
       "value": {}
      }
     ]
    }
  ],
  "pager": {
   "HasNext": true,
   "HasPrevious": true,
   "CurrentPage": 0,
   "PageSize": 0,
   "TotalPages": 0,
   "TotalCount": 0
  }
}
```


Object Records with Advanced Search

This method gets Records from a specific Object. It uses separate strings for each field as well as conditions to filter the results.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ObjectRecordsAdvancedSearch
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
show_all	query	boolean	Show All records (Optional). Default = false
include_subfolders	query	boolean	Include Subfolders (Optional). Default = false
include_custom_fields	query	boolean	Determines whether custom fields should be included in the response. When set to true (default), the API returns

			both system and custom fields. When set to false, only the system-defined fields are included. This parameter is optional and is useful for optimizing performance or limiting data when custom fields are not required.
fields	query	string	Fields to search into with values (Optional). Default = "". e.g.: [{"Field1":"x"},{"Field2":"xx"},{"Field3":"xxx"}].
conditions	query	string	Conditions (Optional). Default = "". E.g.: (Field1 or Field2) and Field3
page_number	query	integer	Page Number (Optional). Specifies the page number to display. Default = 1.
page_size	query	integer	Page Size (Optional). Default = 100. Limits the number of records per page.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
        X GET -H "Authorization:{token}"
        http://localhost:8888/api/Objects/ObjectRecordsAdvancedSearch
        ?
object_id=111&amp;#38;show_all=true&amp;#38;include_subfolders=true&amp;#38;include_custom_fields=true
        &amp;#38;fields=[{"Field1":"x"},{"Field2":"xx"},{"Field3":"xxx"} ]
        &amp;#38;conditions=( Field1 or Field2 ) and
Field3&amp;#38;page_number=1&amp;#38;page_size=100
```

- **Result Example:**

```
{
 "records": [
  {
   "object_id": 0,
   "record_id": 0,
   "object_type": 0,
   "record_guid": "string",
   "record_fields": [
    {
     "system_name": "string",
     "system_description": "string",
     "value": {}
    }
```

```
      ]
    }
  ],
  "pager": {
    "HasNext": true,
    "HasPrevious": true,
    "CurrentPage": 0,
    "PageSize": 0,
    "TotalPages": 0,
    "TotalCount": 0
  }
}
```


Object Record Values

This method gets the values for a specific record.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ObjectRecordValues
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ObjectRecordValues
    ?object_id=111&record_id=111111
```

- **Result Example:**


```
{
 "records": [
  {
   "object_id": 0,
   "record_id": 0,
   "object_type": 0,
   "record_guid": "string",
   "record_fields": [
    {
     "system_name": "string",
     "system_description": "string",
     "value": {}
    }
   ]
  }
 ],
 "pager": {
  "HasNext": true,
  "HasPrevious": true,
  "CurrentPage": 0,
  "PageSize": 0,
  "TotalPages": 0,
  "TotalCount": 0
 }
}
```


Object Field Groups

This method gets all objects and their Field Groups.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ObjectFieldGroups
```

- **Parameters:**

Field	Parameter	Type	Description

	Type		
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ObjectFieldGroups
```

- **Result Example:**


```
[
 {
  "object_id": 0,
  "object_name": "string",
  "object_groups": [
   {
    "id": 0,
    "group_name": "string",
    "order_index": 0,
    "is_default": 0
   }
  ]
 }
]
```


Object Field Groups by Object ID

This method gets all values for all Field Groups of a specific Object.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ObjectFieldGroupsByObjectId
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ObjectFieldGroupsByObjectId
    ?object_id=111
```

- **Result Example:**

```
[
 {
  "id": 0,
  "group_name": "string",
  "order_index": 0,
  "is_default": 0
 }
]
```

Object Field Groups by ID

This method gets all values for a specific Field Group.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ObjectFieldGroupByIds
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.

group_object_id	query	long	Field Group ID. Get from Object Field Groups method (http://localhost:8888/api/Objects/ObjectFieldGroups, or Object Field Groups by Object ID http://localhost:8888/api/Objects/ObjectFieldGroupsByObjectId).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ObjectFieldGroupByIds
    ?object_id=111&group_object_id=111
```

- **Result Example:**

```
{
 "id": 0,
 "group_name": "string",
 "order_index": 0,
 "is_default": 0
}
```

Special Objects

This method gets all Special Objects within an Object.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/SpecialObjects
```

Another (obsolete) method for this call is: http://localhost:8888/Api/Objects/SpecialObjectSections

- **Parameters:**

Field	Parameter Type	Type	Description

object_id	query	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/SpecialObjects
    ?object_id=111
```

- **Result Example:**

```
[
  {
   "group_name": "string",
   "object_id": 0,
   "filter_id": 0,
   "filters": [
     {
      "group_name": "string",
      "object_id": 0,
      "filter_id": 0
     }
   ]
  }
]
```

Simple Search Fields

This method gets all the Simple Search Fields in an Object.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/SimpleSearchFields
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/SimpleSearchFields
    ?object_id=111
```

- **Result Example:**

```
[
 {
  "field_name": "string",
  "display_name": "string",
  "type_id": 0
 }
]
```

Recent

This method gets all the Recent items.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/Recent
```

- **Parameters:**

Field	Parameter Type	Type	Description
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/Recent
```

- **Result Example:**


```
[
 {
  "record_guid": "string",
  "display_name": "string",
  "object_id": 0,
  "checked_status": 0
 }
]
```


Shortcuts

This method gets all the Shortcuts.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/Shortcuts
```

- **Parameters:**

Field	Parameter Type	Type	Description
include_email_folders	query	boolean	Include Email folders for each shortcut (Optional - default: false). When set to true, all email folders configured for the corresponding object will be retrieved for each shortcut.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
    X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/Shortcuts
          ?include_email_folders=false
```

- **Result Example:**


```
[
    {
        "record_guid": "string",
        "display_name": "string",
        "system_name":"string",
        "object_id": 0,
        "record_id": 0,
        "checked_status": 0,
        "shortcut_id": 0,
        "parent_id": 0,
        "is_folder": true,
        "shortcutsobject": [
         {
            "record_guid": "string",
            "display_name": "string",
            "object_id": 0,
             "record_id": 0,
            "checked_status": 0,
            "shortcut_id": 0,
            "parent_id": 0,
            "is_folder": true,
            "email_folders":[
             {
                "folder_id": "string",
                "parent_id": 0,
                "folder_name": "string",
                "object_id":1,
                "is_default":false,
                "is_visibility_normal":true
             }
            ],
            "shortcutsobject": [
             {}
            ]
```

```
            }
          ]
      }
    ]
```

Reference Folders

This method gets all the Reference Folders in an Object.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ReferenceFolder
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ReferenceFolder
    ?object_id=111
```

- **Result Example:**

```
[
 {
  "folder_name": "string",
  "folder_id": 0
 }
]
```

References

This method gets References.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/ReferenceRecords
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
folder_id	query	integer	Folder ID. Get from Reference Folders method (http://localhost:8888/api/Objects/ReferenceFolder).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/ReferenceRecords
    ?object_id=111&record_id=111111&folder_id=11111
```

- **Result Example:**


```
[
 {
  "part_number": "string",
  "description": "string",
  "group_name": "string",
```

```
    "revision": "string",
    "created_by": "string",
    "created_date": "string",
    "modified_by": "string",
    "date_modified": "string",
    "sub_object": "string",
    "status": "string",
    "location": "string",
    "file_name": "string"
  }
]
```


Related Files

This method gets Related Files.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/RelatedFiles
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
show_all_revisions	query	boolean	Show All Revisions (optional). The default value = false.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/RelatedFiles
    ?object_id=111&record_id=111111&show_all_revisions=true
```

- **Result Example:**


```
[
 {
  "file_name": "string",
  "file_size": "string",
  "uploaded_date": "2022-11-22T13:01:18.250Z",
  "modified_date": "2022-11-22T13:01:18.250Z",
  "revision": "string",
  "user_name": "string",
  "access": true,
  "file_id": 0,
  "is_folder": true,
  "file_guid": "string",
  "parent_id": 0,
  "related": [
   {
    "file_name": "string",
    "file_id": 0,
    "parent_id": 0,
    "file_size": "string"
   }
  ]
 }
]
```


Add Related File

This method adds a Related File to a record.

Use a **POST** call on the following URL:

```
http://localhost:8888/Api/Objects/AddRelatedFileToFolder
```

- **Parameters:**

Field	Parameter Type	Type	Description

object_id	body	long	Object ID.
record_id	body	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
file_structure_id	body	long	File Structure ID. Get from Related Files method (http://localhost:8888/api/Objects/RelatedFiles).
file_name	body	string	File name.
file	body	byte[ ]	File data
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
 -X POST "http://localhost:8888/api/File/AddRelatedFileToFolder" \
   -H "Authorization: {token}" \
   -H "Content-Type: application/json" \
   -d '{
         "object_id": 123,
         "record_id": 123,
         "file_structure_id":123,
         "file_name":"test.png",
         "file":[],
       }'
```

- **Result Example:**

```
[
      {
        "Success": "boolean",
        "Message": "string",
        "Data": object,
        "CustomAction": Dictionary<object, object> ,
        "CustomAttributes":Dictionary<object, object>
      }
   ]
```

Add Reference

This method adds a Reference to a record.

Use a **POST** call on the following URL:

```
http://localhost:8888/Api/Objects/AddReferencesToFolder
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_id	body	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
source_object_id	body	long	Source Object ID.
source_record_id	body	long	Source Record ID.
folder_id	body	long	Folder ID. Get from Reference Folders method (http://localhost:8888/api/Objects/ReferenceFolder)
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/Objects/AddReferencesToFolder" \
    -H "Content-Type: application/json" \
    -d '{
          "object_id": 123,
          "record_id": 123,
          "source_object_id":123,
          "source_record_id":123,
          "folder_id":123,
        }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Create Linked Records

This method creates Linked Records.

Use a **POST** call on the following URL:

```
http://localhost:8888/Api/Objects/CreateLinkedRecords
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
list_record_ids	body	List<long>	List Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/Objects/CreateLinkedRecords" \
   -H "Authorization: {token}" \
```

```
-H "Content-Type: application/json" \
-d '{
      "object_id": 123,
      "list_record_ids": [1,2,3],
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Email Folders

This method gets Email Folders for an object.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/EmailFolders
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/EmailFolders
    ?object_id=111
```

- **Result Example:**

```
[
 {
  "folder_id": "string",
  "parent_id": 0,
  "folder_name": "string",
  "object_id":1,
  "is_default":false,
  "is_visibility_normal":true
 }
]
```

Outlook Objects Tree

This method gets Outlook Objects Tree. It retrieves a hierarchical structure of all available objects that are configured to be displayed in Outlook.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Objects/GetOutlookObjectTree
```

- **Parameters:**

Field	Parameter Type	Type	Description
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
X GET -H "Authorization:{token}" http://localhost:8888/api/Objects/GetOutlookObjectTree
```

- **Result Example:**


```
[
 [
  {
   "object_id": 0,
   "description": "string",
   "is_filter": true,
   "object_type": 0,
   "section_id": "string",
   "section_name": "string",
   "parent_id": "string",
   "level": 0,
   "group_object_id": 0,
   "has_children": true,
   "sub_object_guid": "string",
   "image_index":0
  }
 ]
]
```

Property Card

This section deals with property card operations such as get information or Check In / Out.

Property Card Structure by ID

This method gets the Property Card structure by using a Tab ID. Note that a property structure is organized in tabs, folders and fields.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/PropertyCard/GroupsAndFieldsById
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
field_group_id	query	long	Field Group ID. Get from Object Field Groups method (http://localhost:8888/Api/Objects/ObjectFieldGroups).
tab_id	query	long	Tab ID. Property Card details section where the fields are displayed. Get from Property Card Structure Settings method (http://localhost:8888/api/PropertyCard/GroupsAndFieldsSettings).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
X GET -H "Authorization:{token}" http://localhost:8888/api/PropertyCard/GroupsAndFieldsById
    ?object_id=111&record_id=111111&field_group_id=111&group_object_id=111
```

- **Result Example:**


```
[
 {
  "id": 0,
  "group_name": "string",
  "is_tab": true,
  "group_type": 0,
  "parent_id": 0,
  "order_index": 0,
  "linked_field_id": 0,
  "linked_delimiter": "string",
  "linked_enabled": true,
  "linked_reset_counter": true,
  "linked_before": true,
  "linked_char_limit": 0,
  "nbs_version_id": 0,
  "nbs_part_version_id": 0,
  "nbs_drw_version_id": 0,
  "nbs_ass_version_id": 0,
  "sw_pdm_card_id": 0,
  "is_default": true,
  "field_group_id": 0,
  "properties": [
   {
    "id": 0,
    "sw_pdm_variable_id": 0,
    "display_name": "string",
    "long_description": "string",
    "detail_value": "string",
    "display_as_memo": true,
    "type": 0,
    "system_name": "string",
    "min_char": 0,
    "max_char": 0,
    "required": true,
    "original_required": true,
    "warn_if_zero": true,
    "help": "string",
    "bold": true,
    "italic": true,
    "use_upper_case_letters": true,
    "use_lower_case_letters": true,
    "color_rgb": "string",
    "first_letter_capital": true,
```

```
"unique_key": true,
"value_id": 0,
"encrypted": true,
"action": 0,
"original_action": 0,
"order_index": 0,
"default_value": "string",
"custom_property": "string",
"parent_id": 0,
"group_id": 0,
"image_index": 0,
"original_image_index": 0,
"custom_property_list": "string",
"nbs_version_id": 0,
"nbs_part_version_id": 0,
"nbs_drw_version_id": 0,
"nbs_ass_version_id": 0,
"back_color_rgb": "string",
"back_color_rgb_else": "string",
"use_back_color_rgb_else": true,
"condition_highlight": "string",
"condtition_text": "string",
"condition_text2": "string",
"unique_field_option": 0,
"unique_field_action": 0,
"show_as_progress": true,
"show_as_cascade": true,
"allow_list_manual_entry": true,
"reg_ex_validation_string": "string",
"reg_ex_error_msg": "string",
"allow_multiple_items": true,
"parent_field_system_name": "string",
"multiple_values_delimiter": "string",
"use_memo_rich_text": true,
"new_from_options": 0,
"is_mapped": true,
"tab_id": 0,
"object_id": 0,
"type_id": 0,
"is_system": true,
"look_up_type_id": 0,
"third_party_type_id": 0,
"update_pdm_variable": true,
"visible_on_grid": true,
"is_reference": true,
"display_on_property_card": true,
"date_format_string": "string",
```

```
      "enabled": true,
      "property_tab_id": 0,
      "saved_value": "string",
      "system_progress": "string"
     }
    ]
  }
]
```


Property Card Structure Settings

This method gets the Property Card structure settings.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/PropertyCard/GroupsAndFieldsSettings
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
field_group_id	query	long	Field Group ID. Get from Object Field Groups method (http://localhost:8888/Api/Objects/ObjectFieldGroups).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
X GET -H "Authorization:{token}" http://localhost:8888/api/PropertyCard/GroupsAndFieldsSettings
    ?object_id=111&record_id=111111&field_group_id=111
```

- **Result Example:**


```
[
 {
  "id": 0,
  "group_name": "string",
  "is_tab": true,
  "group_type": 0,
  "parent_id": 0,
  "order_index": 0,
  "linked_field_id": 0,
  "linked_delimiter": "string",
  "linked_enabled": true,
  "linked_reset_counter": true,
  "linked_before": true,
  "linked_char_limit": 0,
  "nbs_version_id": 0,
  "nbs_part_version_id": 0,
  "nbs_drw_version_id": 0,
  "nbs_ass_version_id": 0,
  "sw_pdm_card_id": 0,
  "is_default": true,
  "field_group_id": 0,
  "properties": [
   {
    "id": 0,
    "sw_pdm_variable_id": 0,
    "display_name": "string",
    "long_description": "string",
    "detail_value": "string",
    "display_as_memo": true,
    "type": 0,
    "system_name": "string",
    "min_char": 0,
    "max_char": 0,
    "required": true,
    "original_required": true,
    "warn_if_zero": true,
    "help": "string",
    "bold": true,
    "italic": true,
    "use_upper_case_letters": true,
    "use_lower_case_letters": true,
    "color_rgb": "string",
    "first_letter_capital": true,
```

"unique_key": true,
"value_id": 0,
"encrypted": true,
"action": 0,
"original_action": 0,
"order_index": 0,
"default_value": "string",
"custom_property": "string",
"parent_id": 0,
"group_id": 0,
"image_index": 0,
"original_image_index": 0,
"custom_property_list": "string",
"nbs_version_id": 0,
"nbs_part_version_id": 0,
"nbs_drw_version_id": 0,
"nbs_ass_version_id": 0,
"back_color_rgb": "string",
"back_color_rgb_else": "string",
"use_back_color_rgb_else": true,
"condition_highlight": "string",
"condtition_text": "string",
"condition_text2": "string",
"unique_field_option": 0,
"unique_field_action": 0,
"show_as_progress": true,
"show_as_cascade": true,
"allow_list_manual_entry": true,
"reg_ex_validation_string": "string",
"reg_ex_error_msg": "string",
"allow_multiple_items": true,
"parent_field_system_name": "string",
"multiple_values_delimiter": "string",
"use_memo_rich_text": true,
"new_from_options": 0,
"is_mapped": true,
"tab_id": 0,
"object_id": 0,
"type_id": 0,
"is_system": true,
"look_up_type_id": 0,
"third_party_type_id": 0,
"update_pdm_variable": true,
"visible_on_grid": true,
"is_reference": true,
"display_on_property_card": true,
"date_format_string": "string",

```
      "enabled": true,
      "property_tab_id": 0,
      "saved_value": "string",
      "system_progress": "string"
     }
    ]
  }
]
```


Record Information

This method gets Record Information, such as dates, record status and current user actions.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/PropertyCard/RecordInfo
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
X GET -H "Authorization:{token}" http://localhost:8888/api/PropertyCard/RecordInfo
    ?object_id=111&record_id=111111
```

- **Result Example:**

```
{
 "record_created_date": "2022-11-22T14:24:13.840Z",
 "created_by": "string",
 "version_created_date": "2022-11-22T14:24:13.840Z",
 "version_created_by": "string",
 "last_modified": "2022-11-22T14:24:13.840Z",
 "last_modified_by": "string",
 "status": 0,
 "status_description": "string",
 "part_number": "string"
}
```


Section Tabs

This method gets all the Tabs of a property card, for example; BOM, Where Used, Related Files, etc.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/PropertyCard/Sections
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
 curl \
X GET -H "Authorization:{token}" http://localhost:8888/api/PropertyCard/Sections
    ?object_id=111
```

- **Result Example:**

```
[
 {
  "property_tab_id": 0,
  "display_name": "string",
  "type_id": 0
 }
]
```


File Information

This method gets File Information, such as name, dates, size and user.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/PropertyCard/FileInfo
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
 curl \
X GET -H "Authorization:{token}" http://localhost:8888/api/PropertyCard/FileInfo
    ?object_id=11111&record_id=111
```

- **Result Example:**

```
{
 "file_name": "string",
 "file_size": "string",
 "uploaded_date": "2022-11-22T14:24:13.843Z",
 "uploaded_by": "string",
 "last_modified": "2022-11-22T14:24:13.843Z",
 "file_status": "string"
}
```


Check Out

This method performs a Check Out for a specific record.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/CheckOut
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_guid	body	string	Record GUID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
bom_level	body	integer	BOM Level.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
 curl \
-X POST "http://localhost:8888/api/PropertyCard/CheckOut" \
   -H "Authorization: {token}" \
   -H "Content-Type: application/json" \
   -d '{
         "object_id": 123,
         "record_guid": "123",
```

```
    "bom_level":1,
  }'
```

- **Result Example:**

```
[
  {
    "Success": "boolean",
    "Message": "string",
    "Data": object,
    "CustomAction": Dictionary<object, object> ,
    "CustomAttributes":Dictionary<object, object>
  }
]
```

Check Out Batch

This method performs a Check Out on multiple records, from one or more objects. Note that records for which user does not have permission, will be skipped.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/CheckOutBatch
```

- **Parameters:**

Field	Parameter Type	Type	Description
jsonData	body	long	Json Data should be in this format: [{"record_guid":"x","object_id":y}, {"record_guid":"x","object_id":y}]
bom_level	body	integer	BOM Level.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
-X POST "http://localhost:8888/api/PropertyCard/CheckOutBatch" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
  "jsonData": [{"record_guid":"123","object_id":123},{"record_guid":"123","object_id":124}],
  "bom_level":1,
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Check In

This method performs a Check In for a specific record.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/CheckIn
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_guid	body	string	Record GUID.

			Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
bom_level	body	integer	BOM Level.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
-X POST "http://localhost:8888/api/PropertyCard/CheckIn" \
   -H "Authorization: {token}" \
   -H "Content-Type: application/json" \
   -d '{
         "object_id": 123,
         "record_guid": "123",
         "bom_level":1,
       }'
```

- **Result Example:**

```
[
     {
       "Success": "boolean",
       "Message": "string",
       "Data": object,
       "CustomAction": Dictionary<object, object> ,
       "CustomAttributes":Dictionary<object, object>
     }
  ]
```

Check In Batch

This method performs a Check In on multiple records, from one or more objects. Note that records for which user does not have permission, will be skipped.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/CheckInBatch
```

- **Parameters:**

Field	Parameter Type	Type	Description
jsonData	body	long	Json Data should be in this format: [{"record_guid":"x","object_id":y}, {"record_guid":"x","object_id":y}]
bom_level	body	integer	BOM Level.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
-X POST "http://localhost:8888/api/PropertyCard/CheckInBatch" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
  "jsonData": [{"record_guid":"123","object_id":123},{"record_guid":"123","object_id":124}],
  "bom_level":1,
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Field Information

This method gets the In for a specific record.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/PropertyCard/GetFieldsSettings
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
field_id	query	long	Field ID. Get from Property Card Structure Settings method (http://localhost:8888/Api/Objects/GroupsAndFieldsSettings).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
 curl \
X GET -H "Authorization:{token}" http://localhost:8888/api/PropertyCard/GetFieldsSettings
    ?object_id=11111&field_id=111
```

- **Result Example:**

```
{
     "id": "long",
     "display_name": "string",
     "long_description": "string",
      etc...
  }
```

Tasks

This section deals with task operations.

Tasks Tree

This method gets the Tasks Tree structure.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Tasks/Tree
```

- **Parameters:**

Field	Parameter Type	Type	Description
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Tasks/Tree
```

- **Result Example:**

```
[
 {
  "filter_name": "string",
  "filter_id": 0,
  "parent_id": 0,
  "task": [
   {
    "filter_name": "string",
    "filter_id": 0,
    "parent_id": 0
```

```
    }
   ]
  }
]
```

Task Records

This method gets all Task Records.

Use a **GET** call on the following URL:

```
http://localhost:8888/Api/Tasks/TaskRecords
```

- **Parameters:**

Field	Parameter Type	Type	Description
filter_id	query	long	Filter ID.
show_completed	query	boolean	Show Completed Tasks (optional). Default value = true.
simple_search_for	query	string	Simple search string (optional). Default = "".
limit_records	query	long	Limit Records (optional). Default value = 100. Set a a limit on the number of tasks to be returned.
from_sw	query	boolean	SOLIDWORKS items related tasks (optional). Default value = false.
only_switems	query	boolean	Show only SOLIDWORKS items related tasks (optional). Default value = false.
ipage_displayed	query	integer	Page Displayed (optional). Default value = 1.
show_cancelled	query	boolean	Show Canceled Tasks (optional). Default value = true.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
 X GET -H "Authorization:{token}" http://localhost:8888/api/Tasks/TaskRecords
    ?filter_id=0&show_completed=true&simple_search_for=test
```

```
&limit_records=100&from_sw=true&only_switems=false
&ipage_displayed=1&show_cancelled=true
```

- **Result Example:**


```
[
 {
  "subject": "string",
  "part_number": "string",
  "allocated": 0,
  "complete": 0,
  "priority": "string"
 }
]
```

Create

This section allows creation of records for different object types, such as; Records, Documents, Projects, Processes, Cases, and Contacts (CRM).

Create Record

This method allows creation of Records.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/CreateRecord
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
field_group_id	body	long	Field Group Id. Get from Object Field Groups method (http://localhost:8888/api/Objects/ObjectFieldGroups).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParameters>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/CreateRecord" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "object_id": 123,
        "field_group_id": 123,
         "thumbnail": [],
        "fields": [
           {
             "key": "field1",
             "value": "value1"
           },
           {
             "key": "field2",
             "value": "value2"
           },
           {
             "key": "field3",
             "value": "value4"
           }
         ]
      }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Create Document

This method allows creation of Documents. Note that Documents are just like Records but need a primary file.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/CreateDocument
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
field_group_id	body	long	Field Group Id. Get from Object Field Groups method (http://localhost:8888/api/Objects/ObjectFieldGroups).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParameters>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
file_name	body	string	File name.
file	body	byte[ ]	The physical file in bytes.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/CreateDocument" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
```

```
-d '{
      "object_id": 123,
      "field_group_id": 123,
      "thumbnail": [],
      "file_name":"test.png",
      "file":[],
      "fields": [
         {
           "key": "field1",
           "value": "value1"
         },
         {
           "key": "field2",
           "value": "value2"
         },
         {
           "key": "field3",
           "value": "value4"
         }
      ]
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
]
```

Create Project

This method allows creation of Project Records. Note that Projects are just like Records but they have the ability to apply a Gantt Chart Planning Template.

Use a **POST** call on the following URL:

http://localhost:8888/api/PropertyCard/CreateProject

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
field_group_id	body	long	Field Group ID. Get from Object Field Groups method (http://localhost:8888/api/Objects/ObjectFieldGroups).
template_id	body	long	Template ID (Optional) Get from Project Templates method (http://localhost:8888/api/Projects/GetProjectTemplates).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParameters>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/CreateProject" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "object_id": 123,
        "field_group_id": 123,
        "template_id":123,
```

```
    "thumbnail":[],
    "fields": [
       {
         "key": "field1",
         "value": "value1"
       },
       {
         "key": "field2",
         "value": "value2"
       },
       {
         "key": "field3",
         "value": "value4"
       }
     ]
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Create Process

This method allows creation of Process records.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/CreateProcess
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
field_group_id	body	long	Field Group Id. Get from Object Field Groups method (http://localhost:8888/api/Objects/ObjectFieldGroups).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParameters>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/CreateProcess" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "object_id": 123,
        "field_group_id": 123,
        "thumbnail": [],
        "fields": [
           {
             "key": "field1",
             "value": "value1"
           },
           {
             "key": "field2",
             "value": "value2"
           },
           {
```

```
            "key": "field3",
            "value": "value4"
          }
        ]
    }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Create Case

This method allows creation of Case records.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/CreateCase
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
field_group_id	body	long	Field Group Id. Get from Object Field Groups method (http://localhost:8888/api/Objects/ObjectFieldGroups).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFields>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSe

		Parameters>	ttings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/CreateCase" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "object_id": 123,
        "field_group_id": 123,
        "thumbnail": [],
        "fields": [
           {
             "key": "field1",
             "value": "value1"
           },
           {
             "key": "field2",
             "value": "value2"
           },
           {
             "key": "field3",
             "value": "value4"
           }
        ]
      }'
```

- **Result Example:**

```
[
```

```
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
]
```

Create Contact (CRM)

This method allows creation of Contact records (also known as CRM records).

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/CreateCRM
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
field_group_id	body	long	Field Group Id. Get from Object Field Groups method (http://localhost:8888/api/Objects/ObjectFieldGroups).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParameters>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/CreateCRM" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "object_id": 123,
        "field_group_id": 123,
        "thumbnail": [],
        "fields": [
           {
             "key": "field1",
             "value": "value1"
           },
           {
             "key": "field2",
             "value": "value2"
           },
           {
             "key": "field3",
             "value": "value4"
           }
         ]
      }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Update

This section allows to update and maintain data across a range of object types, such as; Records, Documents, Projects, Processes, Cases, and Contacts (CRM).

Update Record

This method allows updating existing Records.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/UpdateRecord
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_guid	body	long	Record GUID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParameters>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/UpdateRecord" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "object_id": 123,
        "record_guid": 123,
        "thumbnail": [],
        "fields": [
           {
             "key": "field1",
             "value": "value1"
           },
           {
             "key": "field2",
             "value": "value2"
           },
           {
             "key": "field3",
             "value": "value4"
           }
       ]
     }'
```

- **Result Example:**

```
[
     {
       "Success": "boolean",
       "Message": "string",
       "Data": object,
       "CustomAction": Dictionary<object, object> ,
       "CustomAttributes":Dictionary<object, object>
     }
  ]
```

Update Document

This method allows updating existing Documents.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/UpdateDocument
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_guid	body	long	Record GUID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParameters>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/UpdateDocument" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "object_id": 123,
        "record_guid": 123,
        "thumbnail": [],
```

```
    "fields": [
      {
        "key": "field1",
        "value": "value1"
      },
      {
        "key": "field2",
        "value": "value2"
      },
      {
        "key": "field3",
        "value": "value4"
      }
    ]
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Update Project

This method allows updating existing Project.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/UpdateProject
```

- **Parameters:**

Field	Parameter	Type	Description

	Type		
object_id	body	long	Object ID.
record_guid	body	long	Record GUID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParameters>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/UpdateProject" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "object_id": 123,
        "record_guid": 123,
        "thumbnail": [],
        "fields": [
           {
             "key": "field1",
             "value": "value1"
           },
           {
             "key": "field2",
             "value": "value2"
           },
           {
             "key": "field3",
```

```
            "value": "value4"
          }
        ]
      }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Update Process

This method allows updating existing Process.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/UpdateProcess
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_guid	body	long	Record GUID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParame	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings).

		ters>	PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/UpdateProcess" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "object_id": 123,
        "record_guid": 123,
        "thumbnail": [],
        "fields": [
           {
             "key": "field1",
             "value": "value1"
           },
           {
             "key": "field2",
             "value": "value2"
           },
           {
             "key": "field3",
             "value": "value4"
           }
         ]
      }'
```

- **Result Example:**

```
[
    {
```

```
    "Success": "boolean",
    "Message": "string",
    "Data": object,
    "CustomAction": Dictionary<object, object> ,
    "CustomAttributes":Dictionary<object, object>
  }
]
```

Update Case

This method allows updating existing Cases.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/UpdateCase
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_guid	body	long	Record GUID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParameters>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/UpdateCase" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "object_id": 123,
        "record_guid": 123,
        "thumbnail": [],
        "fields": [
           {
             "key": "field1",
             "value": "value1"
           },
           {
             "key": "field2",
             "value": "value2"
           },
           {
             "key": "field3",
             "value": "value4"
           }
       ]
    }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Update Contact (CRM)

This method allows updating existing Contacts (also known as CRM records).

Use a **POST** call on the following URL:

```
http://localhost:8888/api/PropertyCard/UpdateCRM
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	body	long	Object ID.
record_guid	body	long	Record GUID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
thumbnail	body	byte[]	Add an image to use as a thumbnail (optional)
fields	body	List<PropertyCardFieldsParameters>	Fields. Get from Property Card Structure Settings method (http://localhost:8888/api/Objects/GroupsAndFieldsSettings). PropertyCardFieldsParameters is a class with these properties: **key**: string **value**: string The value of a single ObjectType field should be like this example: { "key":"test", "value":"object_id,record_guid" }
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/UpdateCRM" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
```

```
-d '{
      "object_id": 123,
      "record_guid": 123,
      "thumbnail": [],
      "fields": [
         {
           "key": "field1",
           "value": "value1"
         },
         {
           "key": "field2",
           "value": "value2"
         },
         {
           "key": "field3",
           "value": "value4"
         }
       ]
   }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
 ]
```

Projects

This section enables managing resources and deliverables in projects.

Add Project Resources

This method allows adding Resources in Project Stages.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/Projects/AddResourcesInProjectStage
```

- **Parameters:**

Field	Parameter Type	Type	Description
project_object_id	body	long	Project Object ID.
record_id	body	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
user_ids	body	list<long>	List of User IDs.
project_stage_id	body	long	Project Stage ID. Get from Project Stages method (http://localhost:8888/api/Projects/GetProjectStages).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/AddResourcesInProjectStage" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "project_object_id": 123,
        "record_id": 123,
        "user_ids": [1,2,3],
```

```
    "project_stage_id": 123,
  }'
```

- **Result Example:**

```
[
  {
    "Success": "boolean",
    "Message": "string",
    "Data": object,
    "CustomAction": Dictionary<object, object> ,
    "CustomAttributes":Dictionary<object, object>
  }
]
```

Remove Project Resources

This method allows removing Resources from Project Stages.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/Projects/RemoveResourcesInProjectStage
```

- **Parameters:**

Field	Parameter Type	Type	Description
project_object_id	body	long	Project Object ID.
record_id	body	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
user_ids	body	list<long>	List of User IDs.
project_stage_id	body	long	Project Stage ID. Get from Project Stages method (http://localhost:8888/api/Projects/GetProjectStages).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/RemoveResourcesInProjectStage" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "project_object_id": 123,
        "record_id": 123,
        "user_ids": [1,2,3],
        "project_stage_id": 123,
      }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Add Project Deliverables

This method allows adding Deliverables in Project Stages. Deliverables are simply other records, documents, projects, processes, etc, that are set to be delivered / completed for this project.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/Projects/AddDeliverablesToProjectStage
```

- **Parameters:**

Field	Parameter Type	Type	Description
project_object_id	body	long	Project Object ID of target object.
project_record_id	body	long	Project Record ID of target object. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
project_stage_id	body	long	Project Stage ID of target object. Get from Project Stages method (http://localhost:8888/api/Projects/GetProjectStages).
object_id	body	long	Object ID of the source record (deliverable).
record_ids	body	List<long>	Record IDs of the source record (deliverable).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/AddDeliverablesToProjectStage" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "project_object_id": 123,
        "project_record_id": 123,
        "project_stage_id": 123,
        "object_id": 123,
        "record_ids": [1,2,3],
      }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Remove Project Deliverables

This method allows removing Deliverables in Project Stages. Deliverables are simply other records, documents, projects, processes, etc, that are set to be delivered / completed for this project.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/Projects/RemoveDeliverablesToProjectStage
```

- **Parameters:**

Field	Parameter Type	Type	Description
project_object_id	body	long	Project Object ID of target object.
project_record_id	body	long	Project Record ID of target object. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
project_stage_id	body	long	Project Stage ID of target object. Get from Project Stages method (http://localhost:8888/api/Projects/GetProjectStages).
object_id	body	long	Object ID of the source record (deliverable).
record_ids	body	List<long>	Record IDs of the source record (deliverable).
remove_all	body	boolean	Remove all
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/RemoveDeliverablesToProjectStage" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "project_object_id": 123,
        "project_record_id": 123,
        "project_stage_id": 123,
```

```
        "object_id": 123,
        "record_ids": [1,2,3],
        "remove_all":false
    }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Project Stages

This method gets Project Stages.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/Projects/GetProjectStages
```

- **Parameters:**

Field	Parameter Type	Type	Description
project_object_id	query	long	Project Object ID.
record_id	query	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Projects/GetProjectStages
  ?project_object_id=123&record_id=123
```

- **Result Example:**

```
[
    {
    "stageid": "long",
    "description": "string",
    }
  ]
```

Project Templates

This method gets Project Templates.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/Projects/GetProjectTemplates
```

- **Parameters:**

Field	Parameter Type	Type	Description
project_object_id	query	long	Project Object ID.
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Projects/GetProjectTemplates
```

?project_object_id=123

- **Result Example:**


```
[
    {
    "templateid": "long",
    "templatename": "string",
    }
  ]
```

Processes

This section allows adding and removing process items.

Add Process Items

This method allows adding Items in Processes as affected items. These can be any type, such as records, documents, projects, etc; as per the process configuration.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/Processes/AddAffectedItemsInProcess
```

- **Parameters:**

Field	Parameter Type	Type	Description
process_object_id	body	long	Process Object ID.
process_record_id	body	long	Process Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
record_ids	body	List<long>	Record IDs.
child_object_id	body	long	Child Object ID of the source record.
process_stage_id	body	long	Process stage ID. Get from Record Information method (http://localhost:8888/api/PropertyCard/RecordInfo).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/AddAffectedItemsInProcess" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
```

```
-d '{
      "process_object_id": 123,
      "process_record_id": 123,
      "record_ids": [1,2,3],
      "child_object_id": 123,
      "process_stage_id": 123,
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Remove Process Items

This method allows adding Items in Processes as affected items. These can be any type, such as records, documents, projects, etc; as per the process configuration.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/Processes/RemoveAffectedItemsInProcess
```

- **Parameters:**

Field	Parameter Type	Type	Description
process_object_id	body	long	Process Object ID.
process_record_id	body	long	Process Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).

record_ids	body	List<long>	Record IDs.
child_object_id	body	long	Child Object ID of the source record.
process_stage_id	body	long	Process stage ID. Get from Record Information method (http://localhost:8888/api/PropertyCard/RecordInfo).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/PropertyCard/RemoveAffectedItemsInProcess" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
        "process_object_id": 123,
        "process_record_id": 123,
        "record_ids": [1,2,3],
        "child_object_id": 123,
        "process_stage_id": 123,
    }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Get Process Items

This method gets Processes affected items.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/Processes/GetAffectedItemsInProcess
```

- **Parameters:**

Field	Parameter Type	Type	Description
object_id	query	long	Object ID.
record_id	query	long	Record ID. Get from Object Records method (http://localhost:8888/api/Objects/ObjectRecords).
show_all	query	boolean	Show All (Optional - default false).

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/Processes/GetAffectedItemsInProcess
    ?object_id=111&record_id=111&show_all=true
```

- **Result Example:**


```
{
  [
   {
    "object_id": 0,
    "record_id": 0,
    "record_guid": "string",
    "affected_items": [
     {
       "object_id": 0,
       "record_id": 0,
       "record_guid": "string",
        record_fields: [
         {
          "system_name": "string",
          "system_description": "string",
```

```
            "value": {}
          }
        ]
      }
    ]
  }
 ],
}
```

Users and Groups

This section allows managing users and groups. You can create, delete, enable, disable, update details or add and remove users from groups.

Add User

This method allows adding Users.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/UsersAndGroups/AddUser
```

- **Parameters:**

Field	Parameter Type	Type	Description
first_name	body	string	First Name
last_name	body	string	Last Name
user_name	body	string	User Name
salutation	body	string	Salutation
telephone	body	string	Telephone
telephone_ext	body	string	Telephone Extension
mobile	body	string	Mobile/Cell Phone
email	body	string	Email Address
position	body	string	Job Position, e.g. Mechanical Engineer
department	body	string	Department, e.g. Engineering Department
password_never_expires	body	boolean	Password never expires
cannot_change_password	body	boolean	User cannot change password
must_change_password	body	boolean	User must change password on first login
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/UsersAndGroups/AddUser" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
     "first_name": "test",
     "last_name": "test",
     "user_name": "test",
     "salutation": "test",
     "telephone": "test",
     "telephone_ext": "test",
     "mobile": "test",
     "email": "test",
     "position": "test",
     "department": "test",
     "password_never_expires": false,
     "cannot_change_password": false,
     "must_change_password": false,
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Update User

This method allows updating exiting Users.

Use a **POST** call on the following URL:

http://localhost:8888/api/UsersAndGroups/UpdateUser

- **Parameters:**

Field	Parameter Type	Type	Description
user_id	body	long	User ID
first_name	body	string	First Name
last_name	body	string	Last Name
user_name	body	string	User Name
salutation	body	string	Salutation
telephone	body	string	Telephone
telephone_ext	body	string	Telephone Extension
mobile	body	string	Mobile/Cell Phone
email	body	string	Email Address
position	body	string	Job Position, e.g. Mechanical Engineer
department	body	string	Department, e.g. Engineering Department
password_never_expires	body	boolean	Password never expires
cannot_change_password	body	boolean	User cannot change password
must_change_password	body	boolean	User must change password on first login
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/UsersAndGroups/AddUser" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
     "user_id": 1,
     "first_name": "test",
     "last_name": "test",
     "user_name": "test",
     "salutation": "test",
     "telephone": "test",
```

```
    "telephone_ext": "test",
    "mobile": "test",
    "email": "test",
    "position": "test",
    "department": "test",
    "password_never_expires": false,
    "cannot_change_password": false,
    "must_change_password": false,
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Delete User

This method allows deleting exiting Users.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/UsersAndGroups/DeleteUsers
```

- **Parameters:**

Field	Parameter Type	Type	Description
user_ids	body	List<long>	List of User IDs. Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).

authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/UsersAndGroups/DeleteUsers" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
     "user_ids": [1,2,30]
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Reset User Password

This method allows resetting User Passwords.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/UsersAndGroups/ResetPassword
```

- **Parameters:**

Field	Parameter Type	Type	Description

user_id	body	long	User ID. Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).
user_must_change_password_on_next_login	body	boolean	User must change password on next login
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/UsersAndGroups/ResetPassword" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
    "user_id": 1,
    "user_must_change_password_on_next_login": true
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Get Users and Groups

This method gets all Users and Groups.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups
```

- **Parameters:**

Field	Parameter Type	Type	Description
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups
```

- **Result Example:**


```
[
    {
      "salutation": "",
      "first_name": "",
      "last_name": "",
      "user_name": "",
      "id": 45,
      "is_group": false,
      "telephone": "",
      "telephone_ext": "",
      "mobile": "",
      "email": "",
      "position": "",
      "department": "",
      "password_never_expires": false,
      "cannot_change_password": false,
      "must_change_password": false,
      "enabled": false
    },
  ]
```

Get User by ID

This method gets a specific User.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/UsersAndGroups/GetUserbyId
```

- **Parameters:**

Field	Parameter Type	Type	Description
user_id	query	long	User ID. Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/UsersAndGroups/GetUserbyId
   ?user_id=1
```

- **Result Example:**


```
[
    {
      "salutation": "",
      "first_name": null,
      "last_name": null,
      "user_name": "_Group_All Resources",
      "id": 6,
      "is_group": true,
      "telephone": null,
      "telephone_ext": null,
```

```
        "mobile": null,
        "email": "",
        "position": null,
        "department": null,
        "password_never_expires": false,
        "cannot_change_password": false,
        "must_change_password": false,
        "enabled": false
      },
  ]
```


Get all Users in a Group

This method gets all Users in a specified Group.

Use a **GET** call on the following URL:

```
http://localhost:8888/api/UsersAndGroups/GetUserInGroup
```

- **Parameters:**

Field	Parameter Type	Type	Description
group_id	query	long	Group ID (same as User ID). Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  X GET -H "Authorization:{token}" http://localhost:8888/api/UsersAndGroups/GetUserInGroup
   ?group_id=1
```

- **Result Example:**

```
[
    {
      "salutation": "",
      "first_name": null,
      "last_name": null,
      "user_name": "_Group_All Resources",
      "id": 6,
      "is_group": true,
      "telephone": null,
      "telephone_ext": null,
      "mobile": null,
      "email": "",
      "position": null,
      "department": null,
      "password_never_expires": false,
      "cannot_change_password": false,
      "must_change_password": false,
      "enabled": false
    },
  ]
```


Add Users to Group

This method allows adding Users into a Group.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/UsersAndGroups/AddUsersToGroup
```

- **Parameters:**

Field	Parameter Type	Type	Description
user_ids	body	List<long>	List of User IDs. Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).
group_id	body	long	Group ID (same as User ID) Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/UsersAndGroups/AddUsersToGroup" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
     "user_ids": [1,2,3],
     "group_id": 123,
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Remove Users from Group

This method allows removing Users from a Group.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/UsersAndGroups/RemoveUsersFromGroup
```

- **Parameters:**

Field	Parameter Type	Type	Description

user_ids	body	List<long>	List of User IDs. Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).
group_id	body	long	Group ID (same as User ID) Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/UsersAndGroups/RemoveUsersFromGroup" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
    "user_ids": [1,2,3,4],
    "group_id": "2",
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Add Group

This method allows adding Users into a Group.

Use a **POST** call on the following URL:

http://localhost:8888/api/UsersAndGroups/AddGroup

- **Parameters:**

Field	Parameter Type	Type	Description
group_name	body	string	Group Name
enabled	body	boolean	Enabled, true or false
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/UsersAndGroups/AddGroup" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
    "group_name": "test",
    "enabled": true
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Delete Group

This method allows deleting a Group.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/UsersAndGroups/DeleteGroup
```

- **Parameters:**

Field	Parameter Type	Type	Description
group_id	body	long	Group ID (same as User ID) Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/UsersAndGroups/DeleteGroup" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
     "group_id": 1,
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
```

```
    "CustomAttributes":Dictionary<object, object>
  }
]
```

Enable/Disable Users

This method allows Enabling or Disabling Users.

Use a **POST** call on the following URL:

```
http://localhost:8888/api/UsersAndGroups/EnableDisableUsers
```

- **Parameters:**

Field	Parameter Type	Type	Description
user_ids	body	List<long>	List of User IDs. Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).
enabled	body	boolean	Group ID (same as User ID) Get from Get Users and Groups method (http://localhost:8888/api/UsersAndGroups/GetUsersAndGroups).
authorization	header	string	Authorization header token.

- **Curl Example:**

```
curl \
  -X POST "http://localhost:8888/api/UsersAndGroups/EnableDisableUsers" \
  -H "Authorization: {token}" \
  -H "Content-Type: application/json" \
  -d '{
     "user_ids": [1,2,3],
     "enabled": false,
  }'
```

- **Result Example:**

```
[
    {
      "Success": "boolean",
      "Message": "string",
      "Data": object,
      "CustomAction": Dictionary<object, object> ,
      "CustomAttributes":Dictionary<object, object>
    }
  ]
```

Examples

- **C# and VB.NET demos**

  C# and VB.NET demo applications are installed with the API to help you get started. Although these examples are in C# and VB.NET, you can reference and consume this web service from many other languages. These example applications are installed in the following location:

  [API installation folder]\Demos.zip\C#
  [API installation folder]\Demos.zip\C# Simple
  [API installation folder]\Demos.zip\VB.NET
  [API installation folder]\Demos.zip\VB.NET Simple

  Notes:
  Projects require a reference to Newtonsoft.json to convert JSON into and object. Other utilities can be used as well. If you wish to add this reference use: **Tools** > **Nuget Package Manager** > **Manage Nuget Packages for Solution** in Visual Studio.

  - Simple Demo (VB.NET)
  - Simple Demo (C#)
  - Advanced Demo (VB.NET)
  - Advanced Demo (C#)

Simple Demo (VB.NET)

This example is a simple application located in:

[API installation folder]\Demos.zip\VB.NET Simple

This is a Windows Application project in Visual Studio (.Net Framework using VB.NET).

```
Imports System.Net
Imports System.Net.Http
Imports Newtonsoft.Json
Imports System.Web
```

```
Public Class Form1
    'Please change these properties as required
    'Enter url here to web service API for example http://localhost:8888/api/
    Dim strApiURL As String = "http://localhost:8888/api/"
    Dim strApplicationTitle As String = "My Application"

    'Create authentication model
    Public Class AuthenticateModel
        Public Property access_token As String
        Public Property refresh_token As String
        Public Property expires_in As Date
        Public Property token_type As String
        Public Property raw_claim As String
        Public Property success As Boolean
        Public Property message As String
    End Class

    Private Sub Form1_Load(sender As Object, e As EventArgs) Handles Me.Load
        'Load two license types in the combo
        With cboLicense.Items 'do not change order
            .Add("Editor") '190
            .Add("Contributor") '191
        End With
        cboLicense.SelectedIndex = 1 'set default as Contributor
        Me.Text = strApplicationTitle
    End Sub

    Private Async Sub BtnLogin_Click(sender As Object, e As EventArgs) Handles BtnLogin.Click
        'This procedure performs login and consumes a license
        Try
            Me.Cursor = Cursors.WaitCursor
            BtnLogin.Enabled = False 'Disable button during this procedure, enable at the end
            Dim licenseId As Integer =191

            'Validate all parameters
            If (String.IsNullOrEmpty(strApiURL)) Then
                'Display message if API address is missing
                MsgBox("API address is missing. Please check your settings and try again."
,MsgBoxStyle.Information, strApplicationTitle)
                Exit Sub
            End If

            If (String.IsNullOrEmpty(txtUsername.Text)) Then
                'Display message if username is missing
                MsgBox("Username is required." ,MsgBoxStyle.Information, strApplicationTitle)
                txtUsername.Focus
```

```
            Exit Sub
        End If

        If (String.IsNullOrEmpty(txtPassword.Text)) Then
            'Display message if password is missing
            MsgBox("Password is required." ,MsgBoxStyle.Information, strApplicationTitle)
            txtPassword.Focus
            Exit Sub
        End If

        'Get License ID from combo
        If cboLicense.SelectedIndex = 1 Then licenseId = 190 Else licenseId = 191

        'Create full URL with query parameters
        Dim parameters = New With {.username = txtUsername.Text, .password =
txtPassword.Text, .licenseId = licenseId}
        Dim endpoint = "Authentication/Authenticate?"
        Dim url As String = GetUrlFromObject(Of Object)(parameters, endpoint)

        'Create HTTP client with HTTP request message
        Dim client As HttpClient = New HttpClient()
        Dim request = New HttpRequestMessage With { .Method = HttpMethod.
[Post], .RequestUri = New Uri(url)}

        'Send ASYNC request to get data from API
        Dim response = Await client.SendAsync(request)

        'Check if API returned status code is OK
        If response.StatusCode = HttpStatusCode.OK Then
            Dim responseString = Await response.Content.ReadAsStringAsync()
            'Convert API JSON result to authenticateModel
            Dim myResponseObject As AuthenticateModel = JsonConvert.DeserializeObject(Of
AuthenticateModel)(responseString)
            If (myResponseObject.success And Not String
.IsNullOrEmpty(myResponseObject.access_token)) Then
                strApiToken = myResponseObject.access_token
            Else
                MsgBox(myResponseObject.message, MsgBoxStyle.Exclamation,
strApplicationTitle)
            End If

            'Enable these buttons
            btnGetObjects.Enabled = True
            btnGetObjectRecords.Enabled = True

        Else
            MsgBox("An error occurred. Please try again!", MsgBoxStyle.Information,
```

```
strApplicationTitle)
                End If

            Catch ex As Exception 'Manage errors
                MsgBox("An error occurred. Make sure the URL is correct.", MsgBoxStyle.Exclamation,
strApplicationTitle)
            Finally
                Me.Cursor = Cursors.Default
                BtnLogin.Enabled = True
            End Try

            'Display info if user is authenticated or not
            lblLoginInfo.Text = If(Not String.IsNullOrEmpty(strApiToken), "User is authenticated.", "User
is NOT authenticated.")

    End Sub
```

Simple Demo (C#)

This example is a simple application located in:

[API installation folder]\Demos.zip\C# Simple

Advanced Demo (VB.NET)

Advanced demo application is in the following location:

[API installation folder]\Demos.zip\VB.NET

Notes:
Projects require a reference to Newtonsoft.json to convert JSON into and object. Other utilities can be used as well. If you wish to add this reference use: **Tools** > **Nuget Package Manager** > **Manage Nuget Packages for Solution** in Visual Studio.

Advanced Demo (C#)

Advanced demo application is in the following location:

[API installation folder]\Demos.zip\C#

Notes:
Projects require a reference to Newtonsoft.json to convert JSON into and object. Other utilities can be used as well. If you wish to add this reference use: **Tools** > **Nuget Package Manager** > **Manage Nuget Packages for Solution** in Visual Studio.

Other

How to setup ActiveMQ

How to setup ActiveMQ

This guide explains how to install, configure, and run **ActiveMQ Classic** on a Windows computer.

1. Get ActiveMQ

- Download one of the latest stable version from the official website.

2. Extract and Place ActiveMQ

- Extract the downloaded .zip file into: C:\Program Files\Apache\ActiveMQ

3.Check if Java is Installed

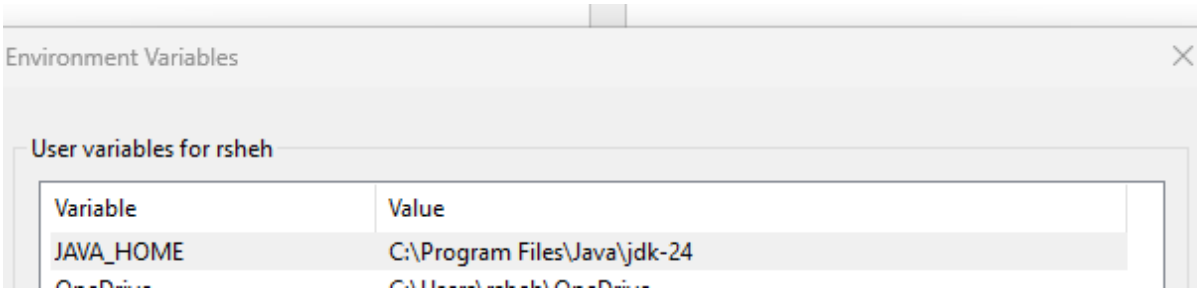
- Open **Command Prompt** and run: *java -version*
  - If you see something like: java version "17.0.x" or higher -> Java is already installed, and you can skip to step 4.
  - If you see: 'java' is not recognized as an internal or external command -> Java is not installed → continue with step 3.1.

3.1 Download and Install Java (if not installed)

- Go to the official Java downloads page (https://www.oracle.com/java/technologies/downloads/)
- Download the latest **Java SE (JDK)** LTS version (e.g., **Java 17** or newer).
- Run the installer and follow the setup wizard.
- Default installation path is usually: C:\Program Files\Java\jdk-17

4. Configure Environment Variables

- Open System Properties → Advanced → Environment Variables.
- Under System variables, add or update:
- **JAVA_HOME** → Path to Java installation (not bin):



- **PATH** → Edit -> Add the following entries:
  - %JAVA_HOME%\bin
  - C:\Program Files\Apache\ActiveMQ\bin

5. Verify Setup

- Open Command Prompt and run the following commands
- **java -version** - > will display the java installed version
  - Go to ActiveMQ folder -> cd C:\Program Files\Apache\ActiveMQ\bin
- Run command **activemq --version** **->** will display the activemq installed version

6. Start ActiveMQ (Manual Mode)

- Open Command Prompt as administrator and execute command: cd C:\Program Files\Apache\ActiveMQ\bin
- Execute: activemq start

Information if ActiveMQ Does Not Start : If using the service, make sure it runs under a user with permission to write to C:\Program Files\Apache\ActiveMQ\data
Fix 2: Adjust Folder Permissions : C:\Program Files\Apache\ActiveMQ

- Right-click → **Properties → Security → Edit**.
- Add your user (or SYSTEM) and give **Full Control** to the folder and its subfolders.
- Click **Apply**.

If you start ActiveMQ manually, you must keep the Command Prompt open and the service running.

7. Install ActiveMQ as a Windows Service

1. Open Command Prompt **as Administrator**.
2. Navigate to bin folder: cd "C:\Program Files\Apache\ActiveMQ\bin\win64"

3. Check if InstallService.bat exists there.
4. If yes, run it as **Administrator**:
5. Execute : InstallService.bat

After installing the service make sure to check in services that ActiveMQ is running.(if not start from services -> ActiveMQ -> Right Click -> Start)
Tip: Installing as a service is recommended if you want ActiveMQ to **start automatically after reboot**.
After Installing all the components for ActiveMQ and ActiveMQ is running.

8.Access ActiveMQ admin page

1. Open a web browser (Chrome, Edge, Firefox, etc.)
2. Go to http://127.0.0.1:8161/
3. Login if prompted: Username: **admin** Password: **admin**

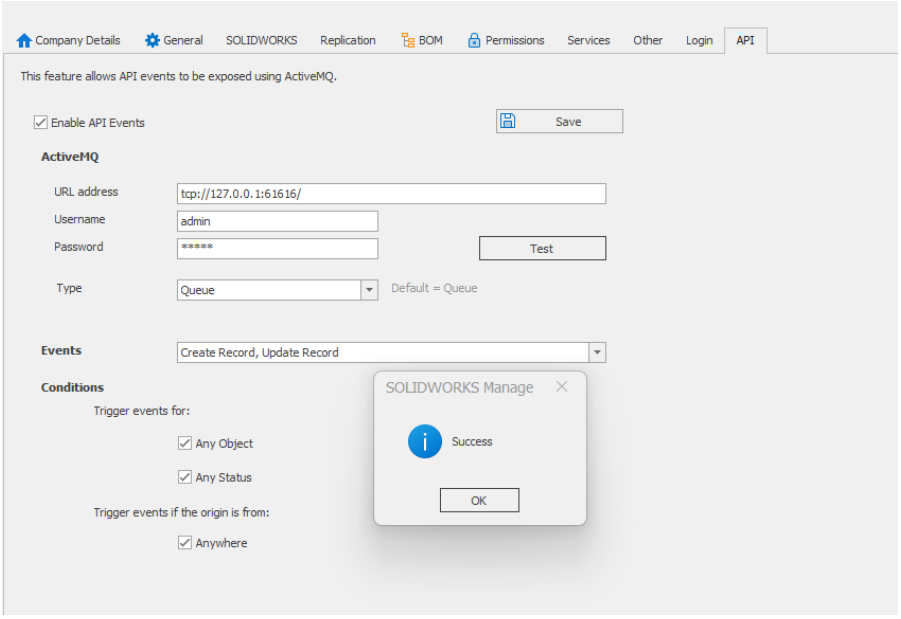
9.ActiveMQ Communication Protocols

- ActiveMQ exposes several protocols for client applications:
- Java (OpenWire) : tcp://localhost:61616 or tcp://127.0.0.1:61616

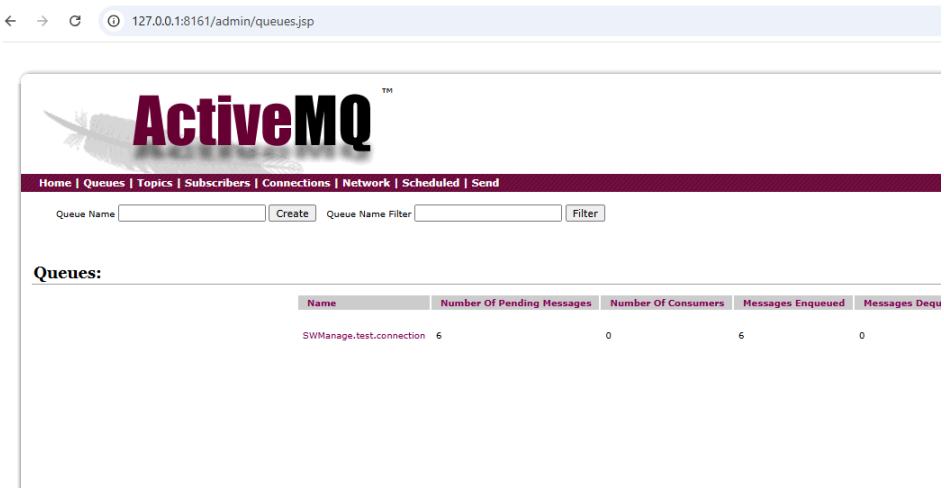
Replace localhost with the server IP if connecting remotely.
If ActiveMQ is running on Windows under the default installation, these ports are already open internally.

You can check those ports on file : C:\Program Files\Apache\ActiveMQ\conf\activemq.xml
<transportConnector name="openwire" uri="tcp://0.0.0.0:61616"/>

10.Configure ActiveMQ in SOLIDWORKS Manage®



11. Verify the ActiveMQ admin page


127.0.0.1:8161/admin/queues.jsp
ActiveMQ
Home | Queues | Topics | Subscribers | Connections | Network | Scheduled | Send
Queue Name
Create
Queue Name Filter
Filter
Queues:
Name
Number Of Pending Messages
Number Of Consumers
Messages Enqueued
Messages Dequ
SWManage.test.connection
6
0
6
0