
eNNOV

Contents

Ennov InSight API Authentication OAuth 2.0

OAuth 2.0 protocol is used to authorize access to protected resources.

Authorized client application access to protected resources like web APIs is obtained by Microsoft supported OAUTHv2 flow.

Depending on the Azure Portal configuration, some of the values below may not be required.

Ennov InSight includes the following grant access types:

Grant Type	Description
Resource Owner Password Credentials (ROPC)	Used where specified user credentials are supplied in the authentication request.
Client Credentials	Used by the built-in "Data Exchange" user.
Authorization Code	The code generated after a user logs on with the credentials. This code is supplied to the API.
Device Code	Used to allow access to a device from a remote site in a multi-factor authentication. User authentication is still required via the browser to gain access.
Refresh Token	Authorizes servers to use temporary access tokens without the need for a user to authenticate with the token expires. Refresh Token is also known as Offline Access.

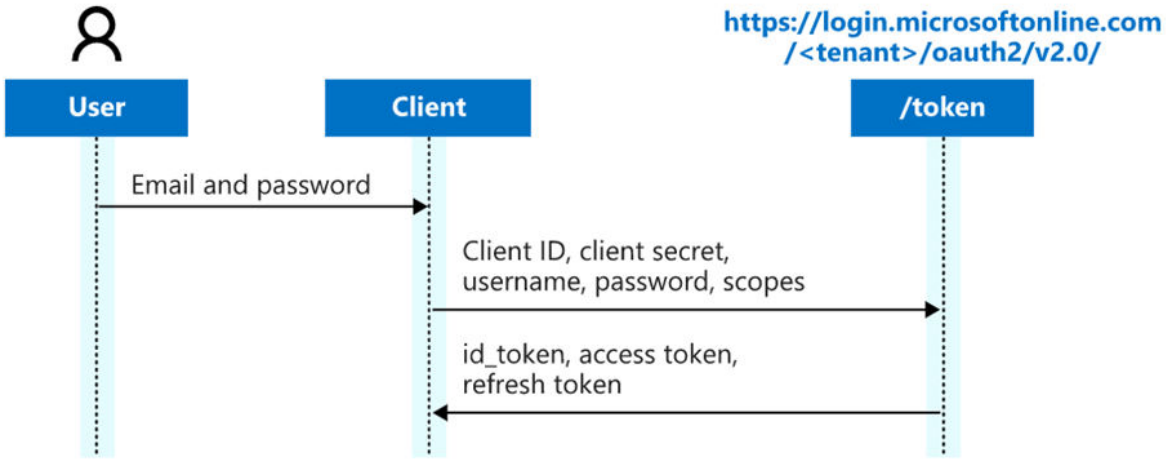
Resource Owner Password Credentials (ROPC)

Resource Owner Password Credentials (ROPC) allows an application to sign in by directly handling the user password.

To enable an API to perform operations based on the defined permissions, you should provide tenant, client_id, user name, password and client_secret values of an active user account configured in Ennov InSight Security Administration. The client_secret value is optional and depends on Azure configuration.

The Audit Trail defines all the operations in logs as specified user.

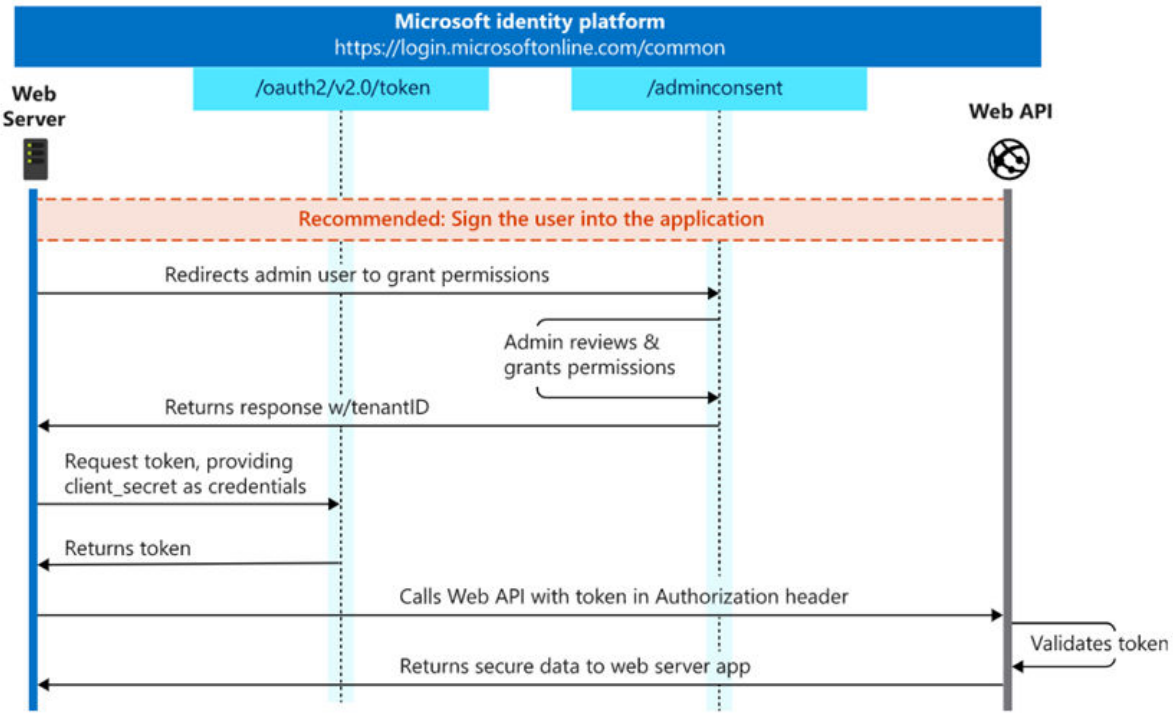
Resource Owner Password Credentials (ROPC) grant type is a legacy authentication method and is only supported for Azure Accounts, not Federated Accounts.



Client Credentials

Use this grant type if you are the built-in "Data Exchange" user.
To enable the API to use the built-in "Data_Exchange" user account, you should provide the tenant, client_id, client_secret in the Azure Portal - App Registration associated with Ennov InSight .

The Audit Trail defines all the operations in logs as `Data_Exchange` user.



Authorization Code

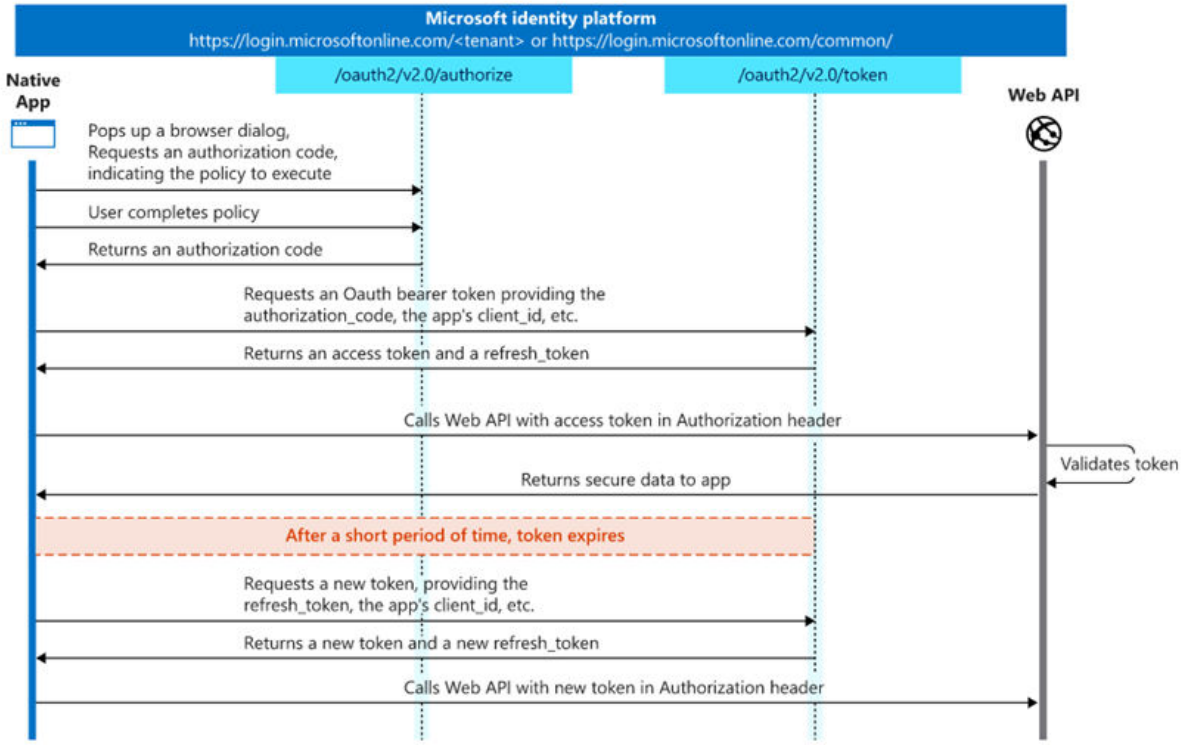
Use this grant type for configurations that use Federated accounts without Azure Active Directory as the underlying Identity Provider.
For this process, the auth code flow requires the Oauth flow to redirect the API to access Ennov InSight . You will be able to generate a time expiring code that grants access to the API.

To generate this code, you should have an account configured in Security Administration with appropriate permissions.

The Audit Trail defines all the operations in logs as the specific user that generated the access token.

If an appropriate redirect_uri is not configured in the Azure Portal - App Registration, this process becomes a manual operation to provide the code to the API.

As the Bearer Token Generated expires quickly, it is recommended that the Authorization Code grant is generated with the “offline_access” scope. This way the refresh_token grant can be utilized on subsequent API authentication requests.



Device Code

Use this grant type for configurations that use Federated accounts without Azure Active Directory as the underlying Identity Provider.

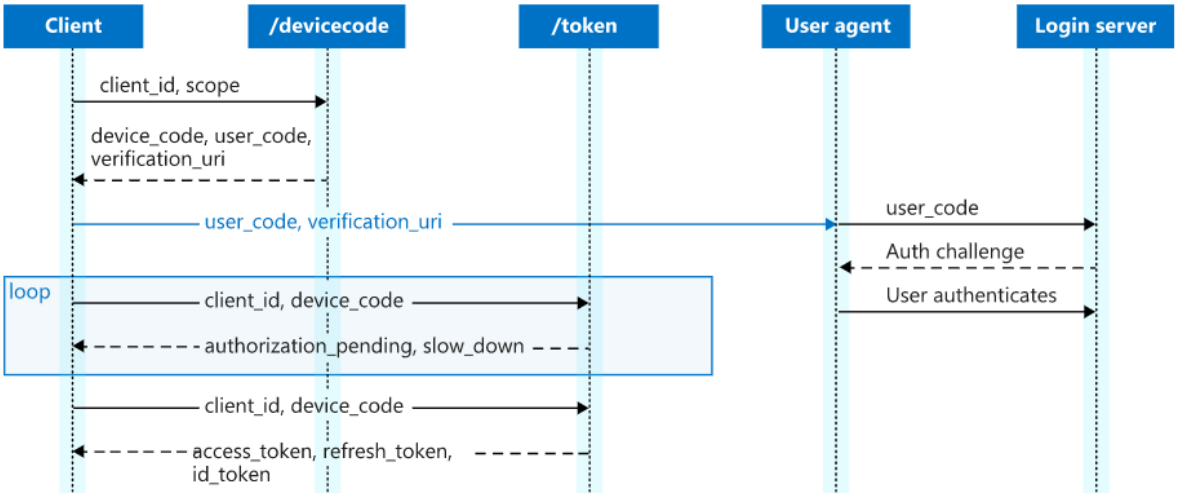
For this process, the device code flow requires the user to authenticate in a two-stage process to generate the bearer token. Authorizing access via the device_code grant should not be performed in a browser on the same client or server that performs the API calls.

The account used to generate the approval should be the account configured in Security Administration with appropriate permissions.

The Audit Trail defines all the operations in logs as the specific user that generated the access token.

This grant type requires "Allow public client flow" to be configured in the Azure Portal - App Registration.

As the Bearer Token Generated expires quickly, it is recommended that the Device Code grant is generated with the “offline_access” scope. This way the refresh_token grant can be utilized on subsequent API authentication requests.



Refresh Token

Use this grant type in conjunction with the access token to extend the frequency required for authentication requests. This grant type is also known as "Offline Access".

All the grant types can be configured to use the Refresh Token, but the OAuth v2 Microsoft endpoints are required to define a scope parameter on initial authentication.

As the Bearer Token is generated with refresh_token parameter, the grant type can be utilized for subsequent authentication requests without additional verification steps. For example: generate an authentication code, completing a device code approval, or sending username or password in the API request.

Worked Examples OAuth 2.0

ROPC Defined Example OAuth 2.0

Specify user credentials in the authentication request to perform API operations based on Ennov InSight security permissions.

To define client credentials:

1. Submit a HTTPS POST request to: https://login.microsoftonline.com/<tenant_id>/oauth2/v2.0/token
   The tenant_id format: `xxxxxxxx-xxxx-xxxx-xxxxxxxxxxxx`.

   Note: *In the URL above common is no longer supported with the v2 oauth2 endpoints so* tenant_id *must be used. The following parameters are updated.*

The body of the request should include the form-data:

Parameter Name	Value
grant_type	password
client_id	xxxxxxxx-xxxx-xxxx-xxxxxxxxxxxx
scope	<registered client_id>/.default openid
user name	<user account with security permissions>
password	<password_for user_account>
client_secret	<registered client_secret>

The Response generates an AzureBearerBody Token used in conjunction with the API X-CSRF-TOKEN access token generated in step 3.

2. Submit an HTTPS GET request to get a token.

   Send an HTTP request (GET-request) to: http://hostname:port/insight/api/v2/token

   The body of the JSON response includes

```
{ "xAuthToken": "44B1E9C995C654E38DDD82BF708784D1" }
```

   with the current session ID. The response header contains the following values:

Parameter Name	Value
X-CSRF-HEADER	X-CSRF-TOKEN
X-CSRF-PARAM	_csrf
X-CSRF-TOKEN	40d67d97-fb28-4a78-a111-5bae0ee706bb

3. Use that token and login information to authenticate.
4. Send a login POST-request to pass authentication using the same session (set JSESSIONID):

Parameter Name	Value
URI:	http://hostname:port/insight/api/v2/login
Request header values:	
Content-Type:	"application/json"
X-CSRF-TOKEN:	40d67d97-fb28-4a78-a111-5bae0ee706bb. This value is retrieved as a result of the previous request. (http://hostname:port/insight/api/v2/token)
Request body (raw):	{"access_token":"<obtained_access_token>", "token_type":"Bearer" This is the Azure Generated Authorization Token gathered in steps 1 and 2.

After successful logon, the application creates a new session and a new token to use in subsequent API calls. The response header contains the following values:

Parameter Name	Values
X-CSRF-HEADER	X-CSRF-TOKEN
X-CSRF-PARAM	_csrf
X-CSRF-TOKEN	40d67d97-fb28-4a78-a111-5bae0ee706bb
Cookie	JSESSIONID=44B1E9C995C654E38DDD82BF708784D1 The value is taken from XAuthToken form described in the step 2.

5. Make an API call with your new token.

   All subsequent REST API POST-requests (read/create/create-or-update/delete for a specific entity) are sent through "/api/v2" URI (example: http://hostname:port/insight/api/v2/event/46098/delete) with the following attributes:

Parameter Name	Value
Request header values:	
Content-Type:	"application/json"
X-CSRF-TOKEN:	40d67d97-fb28-4a78-a111-5bae0ee706bb
Cookie:	JSESSIONID=44B1E9C995C654E38DDD82BF708784D1 The value is taken from XAuthToken form described in the step 2.
Request body:	JSON object for the specific entity.

   Instead of X-CSRF-TOKEN header, you can use the "_csrf" param.

Client Credentials Defined Example OAuth 2.0

Use OAuth 2.0 client credentials grant flow to enable a web service to use its own credentials to authenticate another call web service.

To define client credentials:

1. Submit a HTTPS POST request to: https://login.microsoftonline.com/<tenant_id>/oauth2/v2.0/token

   tenant_id format: xxxxxxxx-xxxx-xxxx-xxxxxxxxxxxx

   Note: *In the URL above common is no longer supported with the v2 oauth2 endpoints so* tenant_id *must be used. The following parameters are updated.*

   The body of the request should include the form-data:

Parameter Name	Value
grant_type	client_credentials
client_id	xxxxxxxx-xxxx-xxxx-xxxxxxxxxxxx
scope	<registered client_id>/.default openid

Parameter Name	Value
client_secret	<registered client_secret>

The Response generates an AzureBearerBody Token used in conjunction with the API X-CSRF-TOKEN access token generated in step 3.

2. Submit an HTTPS GET request to get a token.

   Send an HTTP request (GET-request) to: http://hostname:port/insight/api/v2/token

   The body of the JSON response includes

```
{ "token": "xAuthToken": "44B1E9C995C654E38DDD82BF708784D1" }
```

   with the current session ID. The response header contains the following values:

Parameter Name	Value
X-CSRF-HEADER	X-CSRF-TOKEN
X-CSRF-PARAM	_csrf
X-CSRF-TOKEN	40d67d97-fb28-4a78-a111-5bae0ee706bb

3. Use that token and login information to authenticate.
4. Send a login POST-request to pass authentication using the same session (set JSESSIONID):

Parameter Name	Value
URI:	http://hostname:port/insight/api/v2/login
Request header values:	
Content-Type:	"application/json"
X-CSRF-TOKEN:	40d67d97-fb28-4a78-a111-5bae0ee706bb. This value is retrieved as a result of the previous request. (http://hostname:port/insight/api/v2/token)
Cookie:	JSESSIONID=44B1E9C995C654E38DDD82BF708784D1 The value is taken from XAuthToken form described in the step 2.
Request body (raw):	`{{AzureBearerBody}}` This is the Azure Generated Authorization Token gathered in steps 1 and 2.

After successful logon, the application creates a new session and a new token to use in subsequent API calls. The response header contains the following values:

Parameter Name	Values
X-CSRF-HEADER	X-CSRF-TOKEN

Parameter Name	Values
X-CSRF-PARAM	_csrf
X-CSRF-TOKEN	40d67d97-fb28-4a78-a111-5bae0ee706bb

5. Make an API call with your new token.

   All subsequent REST API POST-requests (read/create/create-or-update/delete for a specific entity) are sent through "/api/v2" URI (example: http://hostname:port/insight/api/v2/event/46098/delete) with the following attributes:

Parameter Name	Value
Request header values:	
Content-Type:	"application/json"
X-CSRF-TOKEN:	40d67d97-fb28-4a78-a111-5bae0ee706bb
Cookie:	JSESSIONID=44B1E9C995C654E38DDD82BF708784D1 The value is taken from XAuthToken form described in the step 2.
Request body:	JSON object for the specific entity.

   Instead of X-CSRF-TOKEN header, you can use the "_csrf" param.

Authorization Code Defined Example OAuth 2.0

Use OAuth 2.0 client credentials grant flow to enable a web service to use its own credentials to authenticate another call web service.

Prerequisites

Use the offline_access scope parameter when connecting through this method. Logging into the RIM API should follow the refresh_token grant after initial bearer token has been generated.

If there is no redirection configured to verify the user login details, and the callback URI is not registered in the Azure Portal - App Registration, this process will require a manual step

The parameters for URL to the OAuth endpoint:

Parameter Name	Value
client_id	xxxxxxxx-xxxx-xxxx-xxxxxxxxxxxx
response_type	code
redirect_uri	https://some-vaid-uri-configured-in-azure-portal
response_mode	query
scope	<registered client_id>/.default openid offline_access
state	<A random string>

Example: `https://login.microsoftonline.com/<tenant_id>/oauth2/v2.0/authorize?client_id=<client_id>&response_type=code&redirect_uri=<login_url_registered_in_app-portal>&response_mode=query&scope=<client_id>%2F.default%20openid%20offline_access&state=<a_state_string>`

The tenant_id format: `xxxxxxxx-xxxx-xxxx-xxxxxxxxxxxx`.

Once the URL is updated, paste the string into a web browser. This will direct you to Ennov InSight login page. If there is no redirection configured, you will logon Ennov InSight . In this case, close the browser window and re-copy the original URL.

A successful code generation displays an Http 400 error page without a valid redirection_uri defined. Example: `<login_url_registered_in_app-portal>?code=<very_long_hash_string>&state=<a_state_value>&session_state=<a_auto_generated_string>`

Copy the whole of the URL to a text editor and extract the very long hash string between code= and &state.

To define client credentials:

1. Submit a HTTPS POST request to: https://login.microsoftonline.com/<tenant_id>/oauth2/v2.0/token
   The body of the request should include the form-data:

Parameter Name	Value
grant_type	authorization_code
client_id	xxxxxxxx-xxxx-xxxx-xxxxxxxxxxxx
scope	<registered client_id>/.default openid
redirect_uri	<login url defined in code request>
code	<hash string extracted earlier>
offline_access	Optional. Add this parameter if you want to use the refresh_token flow.

   The Response generates an AzureBearerBody Token.
2. Use this bearer token in the refresh_token grant flow if the offline_access parameter is defined. If not, follow the usual steps to generate the X-CSRF-TOKEN, JSESSION & RIM API login.

Device Code Example OAuth 2.0

Use this grant type for configurations that use Federated accounts without Azure Active Directory as the underlying Identity Provider.

Prerequisites

Use the offline_access scope parameter when connecting through this method. Logging into the RIM API should follow the refresh_token grant after initial bearer token has been generated.

To define client credentials:

1. Submit a HTTPS POST request to: https://login.microsoftonline.com/<tenant_id>/oauth2/v2.0/token
   The tenant_id format: xxxxxxxx-xxxx-xxxx-xxxxxxxxxxxx.
   The body of the request should include the form-data:

Parameter Name	Value
client_id	xxxxxxxx-xxxx-xxxx-xxxxxxxxxxxx
scope	<registered client_id>/.default openid offline_access

   A "user_code" is generated on successful POST operation.
2. In a browser, navigate to: https://microsoft.com/devicelogin.
3. Enter the user_code string generated into the browser field.
4. Follow the prompts to complete the authentication request.
5. Record or capture the device_code generated as part of the POST request
6. Submit a HTTPS POST request to: https://login.microsoftonline.com/<tenant_id>/oauth2/v2.0/token

Parameter Name	Value
grant_type	urn:ietf:params:oauth:grant-type:device_code
client_id	<registered client_id>
device_code	<device_code_from_previous_step>

   The Response generates an AzureBearerBody Token with the offline_access parameter set.
7. Use this bearer token in the refresh_token grant flow.
   If the offline_access parameter is not defined, follow the usual steps to generate the X-CSRF-TOKEN, JSESSION & RIM API login.

Refresh Token Code Example OAuth 2.0

Use Refresh Token to get new access token when your current access token expires..

To use Refresh Token:

1. Submit a HTTPS POST request to: https://login.microsoftonline.com/<tenant_id>/oauth2/v2.0/token
   The tenant_id format: xxxxxxxx-xxxx-xxxx-xxxxxxxxxxxx.

Parameter Name	Value
grant_type	refresh_token
client_id	<registered client_id>
refresh_token	To obtain it, see: *Authorization Code Defined Example OAuth 2.0*

Parameter Name	Value
scope	<registered client_id>/.default openid offline_access The offline_access parameter must be added to the scope on the initial authorization request to be valid on the refresh_token grant.

The Response generates an AzureBearerBody Token used in conjunction with the API X-CSRF-TOKEN access token.

2. Submit an HTTPS GET request to get a token.

   Send an HTTP request (GET-request) to: http://hostname:port/insight/api/v2/token

   The body of the JSON response includes the following with the current session ID.

```
{  "xAuthToken": "F6A8C5D3B1C2EC9A37DF380C7EB5A9C5" }
```

   The response header contains the following values:

Parameter Name	Value
X-CSRF-HEADER	X-CSRF-TOKEN
X-CSRF-PARAM	_csrf
X-CSRF-TOKEN	40d67d97-fb28-4a78-a111-5bae0ee706bb

3. Use that xAuthToken as JSESSIONID for cookies and X-CSRF-TOKEN to start user session.
4. Send a login POST-request to pass authentication using the same session (set JSESSIONID):

Parameter Name	Value
URI:	http://hostname:port/insight/api/v2/login
Request header values:	
Content-Type:	"application/json"
X-CSRF-TOKEN:	40d67d97-fb28-4a78-a111-5bae0ee706bb. This value is retrieved as a result of the previous request. (http://hostname:port/insight/api/v2/token)
Cookie:	JSESSIONID=F6A8C5D3B1C2EC9A37DF380C7EB5A9C5. This value is retrieved from XAuthToken form as a result of the step 2.
Request body (raw):	{"access_token":"<obtained_access_token>", "refresh_token":"<obtained_refresh_token>", "token_type":"Bearer"} This is the Azure Generated Authorization Token gathered in steps 1 and 2.

After successful logon, the application creates a new session and a new token to use in subsequent API calls. The response header contains the following values:

Parameter Name	Values
X-CSRF-HEADER	X-CSRF-TOKEN
X-CSRF-PARAM	_csrf
X-CSRF-TOKEN	40d67d97-fb28-4a78-a111-5bae0ee706bb

5. Make an API call with your new token.

   All subsequent REST API POST-requests (read/create/create-or-update/delete for a specific entity) are sent through "/api/v2" URI (example: http://hostname:port/insight/api/v2/event/46098/delete) with the following attributes:

Parameter Name	Value
Request header values:	
Content-Type:	"application/json"
X-CSRF-TOKEN:	40d67d97-fb28-4a78-a111-5bae0ee706bb
Cookie:	JSESSIONID=F6A8C5D3B1C2EC9A37DF380C7EB5A9C5. This value is retrieved from XAuthToken form as a result of the step 2.
Request body:	JSON object for the specific entity.

   Instead of X-CSRF-TOKEN header, you can use the "_csrf" param.

Authorization Code via cURL (cmd)

The authorization code using Client for URLs (cURL) to obtain access tokens and refresh tokens.

To authorize code using cURL:

1. Get the user's authorization. Open cURL and set the following variables in it:

```
set RIM_URL= {https://hostname}
set CLIENT_ID = {clientId}
set CLIENT_SECRET = {clientSecret}
set TENANT_ID = {tenantId)
set REDIRECT_URL= {redirect_url}
set RIM_TOKEN_URL= %RIM_URL% /insight/api/v2/token
set SCOPE = openid %CLIENT_ID%/.default offline_access
set ENDPOINT = https://login.microsoftonline.com/%TENANT_ID%/oauth2/
v2.0/authorize
set URL= %ENDPOINT%?client_id=%CLIENT_ID%^&response_type=code^&scope=
%SCOPE% ^&redirect_uri=https://oauth.pstmn.io/v1/
callback^&state=12345
set TOKEN_URL= https://login.microsoftonline.com/ % TENANT_ID %/
oauth2/v2.0/token
```

2. Get the Authorization Code. To do it, send the following request via cURL:

— `@REM start microsoft-edge:"%URL%"`

— `start chrome "%URL%"`

Note: *Alternatively, you can send the request via browser by entering the authorization URL into the search line.*

After receiving your request, the authorization server send you a redirect URI that contain your authorization code. Example:

`echo "Visit the following URL to authorize the application:" "%URL%"`

Note: *Make sure you use correct redirect URL configured in the Application registration.*

3. Set the code from redirect URI by adding it to the following request:

```
set /p AUTH_CODE="Enter Code displayed in browser: "
```

4. Exchange Authorization Code with an access token:

— `curl-X POST-H "Content-Type: application/x-www-form-urlencoded" -d "grant_type=authorization_code&code%AUTH_CODE% &redirect_uri= %REDIRECT_URL%&client_id=%CLIENT_ID%" %TOKEN_URL%`

If everything is done correctly, an AzureBearerBody Token utilised in conjunction with the API X-CSRF-TOKEN access token is generated.

5. Submit an HTTPS GET request to `http://hostname:port/insight/api/v2/token` to receive generated token.
You will get the server response containing your token and the current session ID: `{ "token": "F1AE44E28CB43CDECB2D0A104EB5DF4B" }`. The header of the response must include following values:
— X-CSRF-HEADER → X-CSRF-TOKEN
— X-CSRF-PARAM → _csrf
— X-CSRF-TOKEN → 40d67d97-fb28-4a78-a111-5bae0ee706bb
6. Use the received token and login information to get authenticated. Send a login POST-request to pass authentication. Use the same session (set JSESSIONID):
— URI: `http://hostname:port/insight/api/v2/login`
— Request header values:
  - Content-Type: `"application/json"`
  - X-CSRF-TOKEN: 40d67d97-fb28-4a78-a111-5bae0ee706bb - This value is retrieved as a result of the previous request. (`http://hostname:port/insight/api/v2/token`)
— Request body (raw): `{{AzureBearerBody}}` - This is the is the Azure Generated Authorisation Token gathered in previous steps.
7. After successful login, the application creates a new session and a new token to use in subsequent API calls. The response header must contain the following values:

— X-CSRF-HEADER → X-CSRF-TOKEN
— X-CSRF-PARAM → _csrf
— X-CSRF-TOKEN → c3cc7d40-348e-410c-bcb6-bc0accdfaff5

8. Make an API call with your new token. All subsequent REST API POST-requests (read/create/create-or-update/delete for a specific entity) should be sent through "`/api/v2`" URI (Example: `http://hostname:port/insight/api/v2/event/46098/delete` or `http://hostname:port/insight/api/v2/product-family/all`) with the following attributes:
   — Request header values:
     • Content-Type: `"application/json"`
     • X-CSRF-TOKEN: c3cc7d40-348e-410c-bcb6-bc0accdfaff5
   — Request body: JSON object for the specific entity.

   Instead of X-CSRF-TOKEN header, you can use the "_csrf" parameter.
9. Get the CSRF token by submitting the following request via cURL: curl GET %RIM_TOKEN_URL% -v
10. Set variables for login request
   — set X-CSRF-TOKEN={ enter the value retrieved during the previous request for X-CSRF-TOKEN }
   — set RIM_TOKEN= {enter the value retrieved during for the previous request xAuthToken }
   — set DATA="{{AzureBearerBody}} "

   CURL may require the nested quotas to be escaped. Example:

```
Set DATA= {\"token_type\":\"Bearer\",\"access_token\":
\"eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsIng1dCI6IjVCM25SeHRRN2ppOGVORGMzR
nkwNUtmOTdaRSIsImtpZCI6IjVCM25SeHRRN2ppOGVORGMzRnkwNUtmOTdaRSJ9.eyJhdWQ
iOiJiZWIwMzc0OC1lMDQxLTRlMzAtOGQxZC1iNTI1YzhhZGMwOGMiLCJpc3MiOiJodHRwcz
ovL3N0cy53aW5kb3dzLm5ldC83OWU4MTNlMi1mNGIyLTRlZmItYjA4Yi1iMzZmMzc5ODM1M
DEvIiwiaWF0IjoxNzA1NDI0NzM3LCJuYmYiOjE3MDU0MjQ3MzcsImV4cCI6MTcwNTQyNTYz
NywiYWNyIjoiMSIsImFpbyI6IkFUUUF5LzhWQUFBQTJUL1lpRXhXem8zdGhvZVJmRisvRkU
rNkhiS0M5eWdoSHVrRHVzZ3ZsN29PNmx5RTM5UjNIdnFlUjZBVkVHUEUiLCJhbXIiOlsicH
dkIl0sImFwcGlkIjoiYmViMDM3NDgtZTA0MS00ZTMwLThkMWQtYjUyNWM4YWRjMDhjIiwiY
XBwaWRhY3IiOiIwIiwiaXBhZGRyIjoiNTIuMTg0LjI1My4xNCIsIm5hbWUiOiJJbnNJbXJV
c2VyMSIsIm9pZCI6Ijk1YmM2MzRiLWY4NmItNDJiZC1hMTBjLTBmMTA4NThmNzFmZCIsInJ
oIjoiMC5BU2dBNGhQb2ViTDAtMDZ3aTdOdk41ZzFBVWczc0w1QjREQk9qUjIxSmNpdHdJel
pBR1kuIiwic2NwIjoiTWFpbC5SZWFkIFVzZXIuUmVhZCIsInN1YiI6Ims4elRKcnQ3d0xRY
Ustem93Q0lEZFJkNm9jb1BWTEExNUVOY2t6cm5yUlUiLCJ0aWQiOiI3OWU4MTNlMi1mNGIy
LTRlZmItYjA4Yi1iMzZmMzc5ODM1MDEiLCJ1bmlxdWVfbmFtZSI6Ikluc0ltclVzZXIxQHJ
pbXNzb3BvYy5vbm1pY3Jvc29mdC5jb20iLCJ1cG4iOiJJbnNJbXJVc2VyMUByaW1zc29wb2
Mub25taWNyb3NvZnQuY29tIiwidXRpIjoiVzVFb2gtczhqa0dHbEtyMDZ6V2NBQSIsInZlc
iI6IjEuMCJ9.Pg0wC99ON6Cgu1z6_h4jGcgllsK74s0sqCI1C_a3S7uMurrdxXToG6y_anq
gmVZdES2hPCfPOIci3p_SJIqIrLGl_0qy42iQVx4VZ_aywYPmrAIilkUTRd78yODRLFnHoc
C21S7bzPX0ZzD24hNZP3ozw6b_8zZcGKGCqvQ8VDGmVcM8eDU_108rmDz3Bfd3vMtpBJrsc
usTd-tyoxunrZJF-taXQL1ZZEKytmbkrN2hylcyNoRuRhTz-5Uae2P0QyWUbAy3XfueTV5-
ha98Cq81wUoa-fAjDnunC4RPCTT4Khnd94kIvI8_I7OqiXmr0vcBb3QAGnQOg9JBLnA8jw
\",\"refresh_token\":
\"0.ASgA4hPoebL0-06wi7NvN5g1AUg3sL5B4DBOjR21JcitwIzZAGY.AgABAAEAAAAmoFf
GtYxvRrNriQdPKIZ-AgDs_wUA9P9pLd27F_-
gDI59QVqVeY_iIWIt33wtMSAR8gvVkhNBqhx2nOqTPx2Q9HyOm3twaJdgfM0OI2VnTre00Q
jv4NS540wVyfn3Rme-
```

```
pwXrEzoieHA6sSos0L_PN6TB8KPCcXWq7Donx9lt6Zv0scNREMfkSufTL_HkrLyNbfV2xzi
kp80tsYW2d-
V6LNh6q4qnv7LBuv0BdFmM7xar4hBYV6WNjhwy1WQoyzZROcIUVtyojM3qccOk2Q-0whuNZ
Lb4kwthuQ6WSNoeueO1sE0PCPCKk5-
kuunN_XTlR0tz92F4e5l2oFy6yowx6Sz5DLkdzuvg8VG7zW2aunjZ77IUdBSq94I_dh5-
Qh46zc0Sn8p3jfJL68YTLmUVXxu_BNW1saXZjP700-
fHIM4ejNedUH0MZ5LketsgxymwSkscq_6qOUzZ2ILp85KNv0gEznKmZsvDLGakfXFGtYggT
LLiYpb9o7Jf3DX-
tHW0No8lRia3Vmh4RUXl86PyeXSFe-3MgTB_f3c0VL5D9gqI4UMOlxRrWL7gY9COeGW6JMY
yLw2to0Ic5POJyoaovGD7sXj3wt0ZuC3G5xF-
KzxltaoiGp3TpyfuLwuwphehq95Q2JtL42yxFwumvgJnLZiwe61ic2wO_eRuXjLAHa9qkDF
CPkIG8zXNt4I-CWM2pF4bdSwSDfx01eDv9OYfu55c4qyiO0TIPBg3-
FP54W2Zj9kXnp0zNdqbjT5s\",\"id_token\":
\"eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImtpZCI6IjVCM25SeHRRN2ppOGVORGMzR
nkwNUtmOTdaRSJ9.eyJhdWQiOiJiZWIwMzc0OC1lMDQxLTRlMzAtOGQxZC1iNTI1YzhhZGM
wOGMiLCJpc3MiOiJodHRwczovL2xvZ2luLm1pY3Jvc29mdG9ubGluZS5jb20vNzllODEzZT
ItZjRiMi00ZWZiLWIwOGItYjM2ZjM3OTgzNTAxL3YyLjAiLCJpYXQiOjE3MDU0MjIwMDgsI
m5iZiI6MTcwNTQyMjAwOCwiZXhwIjoxNzA1NDIyOTA4LCJhaW8iOiJBVFFBeS84VkFBQUFz
TlZmbmJjVWVHVFYrZGxSNzlwUHFlK29RbjZkNkZLZG9CNUtCbDgwemVoeEVQZkhYcE5iVUx
PMUdwTTZ2VUU3IiwicmgiOiIwLkFTZ0E0aFBvZWJMMC0wNndpN052TjVnMUFVZzNzTDVCNE
RCT2pSMjFKY2l0d0l6WkFHWS4iLCJzdWIiOiJrOHpUSnJ0N3dMUWFLLXpvd0NJRGRSZDZvY
29QVkxBMTVFTmNrenJuclJVIiwidGlkIjoiNzllODEzZTItZjRiMi00ZWZiLWIwOGItYjM2
ZjM3OTgzNTAxIiwidXRpIjoiNngxTEdfaDlEazZYckRvdU9hQ25BQSIsInZlciI6IjIuMCJ
9.3mmf_KH-
ykTB8BkbgBGBoigWv_jgsps8WAeiNqDBmEB3qIdnrkPauORUwHk74qWN4vSv38bJ6UmUPgH
A_VYSVpy2KjlhNBtYhR2_kk0D_cv2GB7FGTb8nVg5bQP4GOSd7erZsN5TnG-GJevsdOw-
yLzQRX6NZRy6EnR0MWgnjRdhdybl-IVRKC6PIVbZKSm9ReL3-
wdS8faACOtvBB5aVkc8MWF6RmqC1nyD7e1zVNYQj5S-
RJRrrLOHjtQItFO_WqIb1c3cmzYskSrwwhBfe0AxDh1I7d6lQT00Gf9LoCO6ykgRhNPw14u
gAI2OsFOdT9N4Yop7ClGafjwx4Ub5yw\"}"
```


11. Get RIM session: curl -X POST -H "X-CSRF-TOKEN: %X-CSRF-TOKEN%" -H "Content-Type:application/json" -b "JSESSIONID=%RIM_TOKEN%" -d %DATA% %LOGIN_URL% -v
12. Now, you can execute API call with authenticated session:
    - set GET_PF_URL=%RIM_URL%/insight/api/v2/product-family/all
    - curl -X POST -H "X-CSRF-TOKEN: %X-CSRF-TOKEN%" -H "Content-Type:application/json" -b "JSESSIONID=%RIM_TOKEN%" -d %DATA% %GET_PF_URL% -v

Ennov InSight API Documentation

You can import/extract data, perform create/update queries, or delete entities to enhance the functionality of the Ennov InSight user interface.
The Ennov InSight API (application programming interface) enables you to integrate external systems with Ennov InSight .

The Ennov InSight API can be used to manage:
— Assembly Structure Functions
— Registrations Entities
— Tasks and References Entities
— Product Detail Set Detail Entities
— Product Family Agnostic Entities
— Core Ennov InSight Entities
— Assembly Structure
— Life cycle assembly creation
— Life cycle operations and metadata
— Product related Entities
— Entering unique Events within Ennov InSight

Ennov InSight 7.2 API Changes

This table describes the API changes for Ennov InSight 7.2.

Ennov InSight 7.2 includes the following API support.

Entity Name	API/Controller	Main endpoit	Description
EUCategoryOfCMRType	EUCategoryOfCMRTypeRestController	/data-admin/eu-category-of-cmr-type	EU Category of CMR Type Values
EuDeviceNomenclatureCategory	EuDeviceNomenclatureCategoryRestController	/data-admin/eu-device-nomenclature-category	EU Device Nomenclature Category Values
EuDeviceNomenclature	EuDeviceNomenclatureRestController	/data-admin/eu-device-nomenclature	EU Device Nomenclature Values
FdaDeviceInvitroTerm	FdaDeviceInvitroTermRestController	/data-admin/fda-device-invitro-term	FDA GMDN In-Vitro Term Type Values
FdaDeviceGMDN	FdaDeviceGMDNRestController	/data-admin/gmdn	Global Medical Device Nomenclature (GMDN) Code Values

Entity Name	API/Controller	Main endpoit	Description
SubstanceSubtypeType	SubstanceSubtypeRestController	/data-admin/substance-subtype-type	Substance Subtype Type
OriginOfSubstance	OriginOfSubstanceRestController	/data-admin/origin-of-substance	Origin Of Substance Values
CertificateMasterFile	CertificateMasterFileRestController	data-admin/certificate-master-file	Certificate Master File Values
CertificateType	CertificateTypeRestController	/data-admin/certificate-type	Certificate Type Values
DataCarrierIdentifier	LicenseDataCarrierIdentifierRestController	/data-admin//license/data-carrier-identifier	Data Carrier Identifier

Comparison Table API changes between Ennov InSight 7.2 and Ennov InSight 7.1

This table describes the API changes between Ennov InSight 7.2 and Ennov InSight 7.1.

Entity Name	API/Controller	endpoint	API 7.2 Updates			Description
			Attribute	Column	Class/Table	
Substance	SubstanceRestController	/data-admin/substance	The following fields are added: — deviceCmrCategoryId — indexNumber — ecNumber	— DEVICE_CMR_CATEGORY_TYPE_ID — INDEX_NUMBER — EC_NUMBER	Classname:Substance — DB table: ISM.SUBSTANCE — DB view: ISM.DV_SUBSTANCE	— This field is foreign key to: Class name: EUCategoryOfCMRType; DB table: ism.eu_device_cmr_category_type- Required for Substances of type 'CMR Substance', non mandatory for other types. — Optional — Optional

Entity Name	API/Controller	endpoint	API 7.2 Updates			Description
			Attribute	Column	Class/Table	
Manufacturer	SourceRestController(read only)	/data-admin/source	The following fields are added: — dunsSrnNumber — authorizedRepresentativeName	— ORGANIZATION_IDENTIFIER2 — AUTHORIZED_REPRESENTATIVE_NAME	Classname:Source — DB table: ISM.SOURCE — DB view: ISM.DV_SOURCE	— Optional — Optional
Manufactured Item	ManufacturedItemRestController	/manufactured-item	The following fields are changed: — quantityValue — quantityUnit		Classname: Manufactured Item — ISM.MANUFACTURED_ITEM — ISM.DV_MANUFACTURED_ITEM	— The field is changed from required to optional and to accept float values (up to 5 digits then '.' then up to 5 digits. Negative values are not permitted. — The field is changed to optional.

Entity Name	API/Controller	endpoint	API 7.2 Updates			Description
			Attribute	Column	Class/Table	
PDS Substance Detail	SubstanceDetailRestController	/detail/substance	The following fields are added: — originOfSubstanceId — compositionGroupingDescription — concentrationMeasureTypeId	— SUBSTANCE_ORIGIN_TYPE_ID — COMPOSITION_GROUPING_DESCRIPTION — ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID	Classname ActiveIngredientDetail — DB table: ISM.PDS_SUBSTANCE_CHANGE — DB view: ISM.DV_PDS_SUBSTANCE	— Optional.This field is foreign key to: Class name: OriginOfSubstance / ISM.SUBSTANCE_ORIGIN_TYPE compositionGrouping Description / COMPOSITION_GROUPING_DESCRIPTION. — Optional

Entity Name	API/Controller	endpoint	API 7.2 Updates			Description
			Attribute	Column	Class/Table	
PDS ActiveIngredientDetail	ActiveIngredientDetailRestController	/detail/ai	The following fields are added: — originOfSubstanceId — compositionGroupingDescription	— SUBSTANCE_ORIGIN_TYPE_ID — COMPOSITION_GROUPING_DESCRIPTION	Class Name: ActiveIngredientDetail — DB table: ISM.PDS_ACTING_CHANGE — DB view: ISM.DV_PDS_ACTING	— This field is foreign key to: Class name: OriginOfSubstance / ISM.SUBSTANCE_ORIGIN_TYPE. Optional. — Optional.
FluStrainDetail	FluStrainDetailRestController	/detail/flu-strain	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
ManufacturedItemSubstance	ManufacturedItemSubstanceRestController	/product-family/product/component/manufactured-item/substance	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		

Entity Name	API/Controller	endpoint	API 7.2 Updates			Description
			Attribute	Column	Class/Table	
ManufacturedItemReferenceSubstance	ManufacturedItemReferenceSubstanceRestController	/product-family/product/component/manufactured-item/substance/reference	The following fied is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
ManufacturedItemActiveIngredient	ManufacturedItemActiveIngredientRestController	/product-family/product/component/manufactured-item/active-ingredient	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
ManufacturedItemRefActiveIngredient	ManufacturedItemRefActiveIngredientRestController	/product-family/product/component/manufactured-item/active-ingredient/reference	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
Strength	StrengthRestController	/strength	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
ReferenceStrength	ReferenceStrengthRestController	/reference-strength	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		

Entity Name	API/Controller	endpoint	API 7.2 Updates			Description
			Attribute	Column	Class/Table	
XPharmaProductSubstance	XPharmaProductSubstanceRestController	— /product/xpharma-product — /xpharma-product-substance	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
XPharmaProductRefSubstance	XPharmaProductRefSubstanceRestController	— /product/xpharma-product — /xpharma-product-substance/reference	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
XPharmaProductActiveIngredient	XPharmaProductActiveIngredientRestController	— /product/xpharma-product — /xpharma-product-active-ingredient	The following fields are added: — concentrationMeasureTypeId — substanceId	— ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID — ISM.SUBSTANCE.ID		
XPharmaProductRefActiveIngredient	XPharmaProductRefActiveIngredientRestController	— /product/xpharma-product — /xpharma-product-active-ingredient	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		

Ennov InSight 7.2 Data Administration Lists - APIs CUD Operations

List of Data Administration entities supported by API Create, Update, Delete (CUD) operations.

Table 1: Data Administration Lists

Data Administration Section	Data Administration Section List Name
Application Maintenance	Age Span Population Values
	Application Category Values
	CTA Product Role Values
	MedDRA Term Values
	Medical Condition Investigated Values
	Product Information Document Type Values
	Reason for Premature Ending Values
	Region Type Values
Assembly	Assembly Category Values
Change Maintenance	Change Type Values
Custom List Maintenance	Custom List Names
	Custom List Values
DMS Integration	Bind to Label Values
	Bind to Status Values
	Rendition Identifier Values
Event Maintenance	ActionType Values
	Event Type Values
Other	Application Submission Type Values
	Attached Document Content Type Values
	Denominator Unit Values

Data Administration Section	Data Administration Section List Name
Product Detail Set Maintenance	Color Values
	Compendial Designation/Source Values
	Data Classification Type Values
	Device – Type of Combination Values
	Dose Frequency Values
	Human Consumption Product Values
	Intended Effect Values
	Label Type Values
	Manufacturing Functions Values
	Medical Device UDI Values
	Medical Device Part Code Values
	Origin of Substance Values
	Product Material Values
	Production Type Values
	Shape Values
	Shelf Life Category Values
	Species Values
	Storage Condition Values
	Substance Values > Substance International Codes
Product Family Maintenance	Domain Type Values

Data Administration Section	Data Administration Section List Name
Product Maintenance	Applicable Standards Values
	Conformity Assessment Body Values
	Conformity Assessment Path Values
	Device Allergenicity Values
	Device Sterility Indicator Values
	EC Cert Values
	Global Harmonization Task Force (GHTF) Class Values
	Manufacturing Location Values
	Product Category Type Values
	Product Cross Reference Type Values
	Cross Reference Type Values
	Sterilization Values
Publishing Requirements Maintenance	Electronic Format Requirement Values
Registration Maintenance	Medicinal Product Name Part Type Values
	Provenance Reason Values
	Marketing Status Values
	Master File Type Values
	Component Type Values
	Content of Change Values
	Risk of Supply of Shortage Reason Values
	Medical Product Actions/Submission Status Values
	Applicant Contact Values
	Qualified Person Responsible for Pharmacovigilance (QPPV) Values
Submission Maintenance	Applicant Contact Type Values
	Promotional Material Audience Type Values
	Promotional Material Type Values

Ennov InSight 7.2 API End Points Entities Added

The API End Points for Data Administration entities added to the Ennov InSight 7.2.

Endpoints

```
put("meddra-term-type", DataAdminEntityConfig.builder()
      .metaClassName(MeddraTermType.CLASSNAME)
      .build());
```

```
put("medical-condition-type", DataAdminEntityConfig.builder()
      .metaClassName(MedicalConditionType.CLASSNAME)
      .build());
```

```
put("medical-device-udi", DataAdminEntityConfig.builder()
      .metaClassName(MedicalDeviceUDI.CLASSNAME)
      .build());
```

```
put("medicinal-product-name-part-type", DataAdminEntityConfig.builder()
      .metaClassName(MedicinalProductNamePartType.CLASSNAME)
      .build());
```

```
put("part-code", DataAdminEntityConfig.builder()
      .metaClassName(PartCode.CLASSNAME)
      .build());
```

```
put("premature-ending-type", DataAdminEntityConfig.builder()
      .metaClassName(PrematureEndingType.CLASSNAME)
      .build());
```

```
put("product-category", DataAdminEntityConfig.builder()
      .metaClassName(ProductCategory.CLASSNAME)
      .build());
```

```
put("product-cross-reference-type", DataAdminEntityConfig.builder()
      .metaClassName(ProductCrossReferenceType.CLASSNAME)
      .build());
```

Endpoints

```
put("product-information-document-type", DataAdminEntityConfig.builder()
      .metaClassName(ProductInformationDocumentType.CLASSNAME)
      .build());
```

```
put("provenance-reason", DataAdminEntityConfig.builder()
      .metaClassName(ProvenanceReason.CLASSNAME)
      .build());
```

```
put("reference-type", DataAdminEntityConfig.builder()
      .metaClassName(ReferenceType.CLASSNAME)
      .build());
```

```
put("region-type", DataAdminEntityConfig.builder()
      .metaClassName(RegionType.CLASSNAME)
      .build());
```

```
put("rendition-identifier", DataAdminEntityConfig.builder()
      .metaClassName(RenditionIdentifier.CLASSNAME)
      .build());
```

```
put("sterilization-type", DataAdminEntityConfig.builder()
      .metaClassName(SterilizationType.CLASSNAME)
      .build());
```

```
put("storage-conditions", DataAdminEntityConfig.builder()
      .metaClassName(StorageConditions.CLASSNAME)
      .build());
```

```
put("application-submission-type", DataAdminEntityConfig.builder()
      .metaClassName(ApplicationSubmissionType.CLASSNAME)
      .build());
```

```
put("attached-document-content-type", DataAdminEntityConfig.builder()
      .metaClassName(AttachedDocumentContentType.CLASSNAME)
      .build());
```

Endpoints

```
put("bind-label", DataAdminEntityConfig.builder()
      .metaClassName(BindLabel.CLASSNAME)
      .build());
```

```
put("bind-status", DataAdminEntityConfig.builder()
      .metaClassName(BindStatus.CLASSNAME)
      .build());
```

```
put("material-type", DataAdminEntityConfig.builder()
      .metaClassName(MaterialType.CLASSNAME)
      .build());
```

```
put("ec-cert-type", DataAdminEntityConfig.builder()
      .metaClassName(ECCertType.CLASSNAME)
      .build());
```

```
put("electronic-format-requirement-type", DataAdminEntityConfig.builder()
      .metaClassName(ElectronicFormatRequirementType.CLASSNAME)
      .build());
```

```
put("event-type", DataAdminEntityConfig.builder()
      .metaClassName(EventType.CLASSNAME)
      .build());
```

```
put("ghtf-type", DataAdminEntityConfig.builder()
      .metaClassName(GHTFType.CLASSNAME)
      .build());
```

```
put("human-consumption-products", DataAdminEntityConfig.builder()
      .metaClassName(HumanConsumptionProducts.CLASSNAME)
      .build());
```

```
put("intended-effect-type", DataAdminEntityConfig.builder()
      .metaClassName(IntendedEffectType.CLASSNAME)
      .build());
```

Endpoints

```
put("label-type", DataAdminEntityConfig.builder()
      .metaClassName(LabelType.CLASSNAME)
      .build());
```

```
put("manufacturing-location-type", DataAdminEntityConfig.builder()
      .metaClassName(ManufacturingLocationType.CLASSNAME)
      .build());
```

```
put("marketing-status", DataAdminEntityConfig.builder()
      .metaClassName(MarketingStatus.CLASSNAME)
      .build());
```

```
put("master-file-type", DataAdminEntityConfig.builder()
      .metaClassName(MasterFileType.CLASSNAME)
      .build());
```

```
put("component-type", DataAdminEntityConfig.builder()
      .metaClassName(ComponentType.CLASSNAME)
      .build());
```

```
put("conformity-assessment-body-type", DataAdminEntityConfig.builder()
      .metaClassName(ConformityAssessmentBodyType.CLASSNAME)
      .build());
```

```
put("source-authorisation", DataAdminEntityConfig.builder()
      .metaClassName(SourceAuthorisation.CLASSNAME)
      .createFieldGroup("dataExchangeADD")
      .updateFieldGroup("dataExchangeUPDATE")
      .build());
```

```
put("content-of-change-type", DataAdminEntityConfig.builder()
      .metaClassName(ContentOfChangeType.CLASSNAME)
      .build());
```

Endpoints

```
put("risk-supply-shortage-reason", DataAdminEntityConfig.builder()
      .metaClassName(RiskOfSupplyShortageReason.CLASSNAME)
      .build());
```

```
put("promotional-material-audience-type", DataAdminEntityConfig.builder()
      .metaClassName(PromotionalMaterialAudienceType.CLASSNAME)
      .build());
```

```
put("promotional-material-doc-type", DataAdminEntityConfig.builder()
      .metaClassName(PromotionalMaterialDocType.CLASSNAME)
      .build());
```

```
put("custom-list-value", DataAdminEntityConfig.builder()
      .metaClassName(CustomListValue.CLASSNAME)
      .createFieldGroup("dataExchangeADD")
      .updateFieldGroup("dataExchangeUPDATE")
      .build());
```

```
put("application-category", DataAdminEntityConfig.builder()
      .metaClassName(ApplicationCategory.CLASSNAME)
      .build());
```

```
put("applicant-contact-type", DataAdminEntityConfig.builder()
      .metaClassName(ApplicantContactType.CLASSNAME)
      .build());
```

```
put("age-span-type", DataAdminEntityConfig.builder()
      .metaClassName(AgeSpanType.CLASSNAME)
      .build());
```

```
put("color", DataAdminEntityConfig.builder()
      .metaClassName(Color.CLASSNAME)
      .build());
```

Endpoints

```
put("shape", DataAdminEntityConfig.builder()
      .metaClassName(Shape.CLASSNAME)
      .build());
```

```
put("production-type", DataAdminEntityConfig.builder()
      .metaClassName(ProductionType.CLASSNAME)
      .build());
```

```
put("origin-of-substance", DataAdminEntityConfig.builder()
      .metaClassName(OriginOfSubstance.CLASSNAME)
      .build());
```

```
put("dose-frequency", DataAdminEntityConfig.builder()
      .metaClassName(DoseFrequency.CLASSNAME)
      .build());
```

```
put("gm-cell-origin-species-type", DataAdminEntityConfig.builder()
      .metaClassName(GMCellOriginSpeciesType.CLASSNAME)
      .build());
```

```
put("somatic-cell-therapy-type", DataAdminEntityConfig.builder()
      .metaClassName(SomaticCellTherapyType.CLASSNAME)
      .build());
```

```
put("cell-origin-species-type", DataAdminEntityConfig.builder()
      .metaClassName(CellOriginSpeciesType.CLASSNAME)
      .build());
```

```
put("somatic-cell-therapy-origin-type", DataAdminEntityConfig.builder()
      .metaClassName(SomaticCellTherapyOriginType.CLASSNAME)
      .build());
```

```
put("scientific-source-type", DataAdminEntityConfig.builder()
      .metaClassName(ScientificSourceType.CLASSNAME)
      .build());
```

Endpoints

```
put("shelf-life-category", DataAdminEntityConfig.builder()
      .metaClassName(ShelfLifeCategory.CLASSNAME)
      .build());
```

```
put("species-type", DataAdminEntityConfig.builder()
      .metaClassName(SpeciesType.CLASSNAME)
      .build());
```

```
put("compendial-designation", DataAdminEntityConfig.builder()
      .metaClassName(CompendialDesignation.CLASSNAME)
      .build());
```

```
put("product-material", DataAdminEntityConfig.builder()
      .metaClassName(ProductMaterial.CLASSNAME)
      .build());
```

```
put("manufacturer-function", DataAdminEntityConfig.builder()
      .metaClassName(ManufacturerFunction.CLASSNAME)
      .build());
```

```
put("substance-international-codes", DataAdminEntityConfig.builder()
      .metaClassName(SubstanceInternationalCodes.CLASSNAME)
      .build());
```

```
put("custom-list", DataAdminEntityConfig.builder()
      .metaClassName(CustomListName.CLASSNAME)
      .build());
```

```
put("applicable-standards", DataAdminEntityConfig.builder()
      .metaClassName(ApplicableStdsType.CLASSNAME)
      .build());
```

```
put("medical-product-action-submission-
status", DataAdminEntityConfig.builder()
      .metaClassName(MedicalProductActionType.CLASSNAME)
      .build());
```

Endpoints

```
put("applicant-contact-email", DataAdminEntityConfig.builder()
      .metaClassName(ApplicantContactEmail.CLASSNAME)
      .build());
```

```
put("applicant-contact", DataAdminEntityConfig.builder()
      .metaClassName(ApplicantContact.CLASSNAME)
      .build());
```

```
put("applicant-contact-phone", DataAdminEntityConfig.builder()
      .metaClassName(ApplicantContactPhone.CLASSNAME)
      .build());
```

```
put("qppv", DataAdminEntityConfig.builder()
      .metaClassName(Qppv.CLASSNAME)
      .build());
```

```
put("manufacturing-function-global-
detail", DataAdminEntityConfig.builder()
      .metaClassName(ManufacturingFunctionGlobalDetail.CLASSNAME)
      .createFieldGroup("apiCreateFieldGroup")
      .updateFieldGroup("dataExchangeUPDATE")
      .parentFieldName(ManufacturingFunctionGlobalDetail.SOURCEID)
      .build());
```

```
put("raw-material-global-detail", DataAdminEntityConfig.builder()
      .metaClassName(RawMaterialGlobalDetail.CLASSNAME)
      .createFieldGroup("apiCreateFieldGroup")
      .updateFieldGroup("dataExchangeUPDATE")
      .parentFieldName(RawMaterialGlobalDetail.SOURCEID)
      .build());
```

```
put("packaging-global-detail", DataAdminEntityConfig.builder()
      .metaClassName(PackagingGlobalDetail.CLASSNAME)
      .createFieldGroup("apiCreateFieldGroup")
      .updateFieldGroup("dataExchangeUPDATE")
      .parentFieldName(PackagingGlobalDetail.SOURCEID)
      .build());
```

Endpoints

```
put("substance-global-detail", DataAdminEntityConfig.builder()
      .metaClassName(SubstanceGlobalDetail.CLASSNAME)
      .createFieldGroup("apiCreateFieldGroup")
      .updateFieldGroup("dataExchangeUPDATE")
      .parentFieldName(SubstanceGlobalDetail.SOURCEID)
      .build());
```

```
put("change-type", DataAdminEntityConfig.builder()
      .metaClassName(ChangeType.CLASSNAME)
      .build());
```

```
put("change-reason", DataAdminEntityConfig.builder()
      .metaClassName(ChangeReason.CLASSNAME)
      .build());
```

```
put("action-type", DataAdminEntityConfig.builder()
      .metaClassName(ActionType.CLASSNAME)
      .build());
```

```
put("assembly-category", DataAdminEntityConfig.builder()
      .metaClassName(AssemblyCategory.CLASSNAME)
      .build());
```

```
put("conform-assess-path-type", DataAdminEntityConfig.builder()
      .metaClassName(ConformAssessPathType.CLASSNAME)
      .build());
```

```
put("cta-product-role-type", DataAdminEntityConfig.builder()
      .metaClassName(CTAProductRoleType.CLASSNAME)
      .build());
```

```
put("denominator-unit-type", DataAdminEntityConfig.builder()
      .metaClassName(DenominatorUnitType.CLASSNAME)
      .build());
```

Endpoints

```
put("device-allergenicity", DataAdminEntityConfig.builder()
      .metaClassName(DeviceAllergenicity.CLASSNAME)
      .build());
```

```
put("device-combination-type", DataAdminEntityConfig.builder()
      .metaClassName(DeviceCombinationType.CLASSNAME)
      .build());
```

```
put("device-sterility-indicator", DataAdminEntityConfig.builder()
      .metaClassName(DeviceSterilityIndicator.CLASSNAME)
      .build());
```

```
put("domain-type", DataAdminEntityConfig.builder()
      .metaClassName(DomainType.CLASSNAME)
      .build());
```

```
put("data-classification-type", DataAdminEntityConfig.builder()
      .metaClassName(DataClassificationType.CLASSNAME)
      .build());
```

Ennov InSight 7.2 Read-Only API Entities

The list of read-only API entities.

Table 2: Read-Only API Entities

These entities do not support the following endpoints: `/create`, `/update`, `/create-or-update`, `/delete/{id}`.

API Entity Name
ApplicantID
ApplicationFormType
ApplicationStatus
ApplicationType
AssemblyStatus
AssemblySubcategory
BioType
ConcentrationMeasureType

API Entity Name
CountryHealthAuthority
CountryLeadTime
CountryRegion
CountrySpecificDetailType
CountrySpecificDetailValue
DataClassificationType
DeviceType
DeviceUsage
DivisionType
DossierType
DtdAppTypeEctd
DtdEffDateTypeEctd
DtdSeqTypeEctd
DtdSubTypeEctd
EmaAuthStatus
EntityXMLType
EUClassificationRuleType
EuGroupingType
EurdType
EventChangeDetailStatus
EventMilestones
EventPlanType
EventStatus
EvmpdCodeMappingReadOnly
FilingType
GeneTherapyTransProdType
GeneTherapyType
GMCellOriginType
InternalTypeView
InvestigatorType

API Entity Name
Language
LeafStatus
LegalBasisType
LegalStatus
LengthUnitOfMeasure
MahSponsor
MahSponsorEvmpdCodeMapping
ManufacturerFunction
MasterFileLocationType
MedicalDeviceType
MedicinalProductType
MessageSender
NumeratorUnitType
OmsOrgLocation
PdfProperty
PreviousEvCode
ProductCharacteristics
ProductDetailSetStatus
ProductFamilyStatus
ProductStatus
ProductStrengthUnit
ProjectStatus
ProjectType
PromotionalMaterialType
Property
PsurReportCode
QCStatus
QuantityUnitOfMeasure
RawMaterial
ReferenceContent

API Entity Name
ReferencedDTDType
ReferenceParticipant
ReferenceStatus
RegistrationStatus
RegulatoryActingLeadType
RegulatoryEntitlementStatus
RegulatoryEntitlementType
RenditionIdentifierValues
RmsApplicationLegalBasis
RmsApplicationSubmissionType
RmsAtcHuman
RmsCombinationPackage
RmsCombinedPharmaDoseForm
RmsCombinedTerm
RmsContactPartyRoleController
RmsCountry
RmsDataClassificationController
RmsDomain
RmsEURegulatoryAuthorisationProcedure
RmsIngredientRole
RmsLanguage
RmsLegalStatusSupply
RmsManufacturingActivity
RmsMarketingStatus
RmsMasterFileType
RmsMaterialController
RmsMedicalDictionaryForRegActivitiesController
RmsMedicalProductNamePartTypeController
RmsPackagingController
RmsPharmaDoseForm

API Entity Name
RmsProductCategoryController
RmsProductCrossReferenceType
RmsProductInformationDocumentTypeController
RmsQuantityOperator
RmsReasonForMarketingUnavailability
RmsRegulatoryEntitlementStatusController
RmsRegulatoryEntitlementTypeController
RmsRoutesAndMethodsOfAdministration
RmsShelfLifeTypeController
RmsSpecialPrecautionForStorage
RmsUnitsOfMeasurement
RmsUnitsOfPresentation
RmsXevmpdMedicalDevices
RmsXevmpdMedicinalProductType
SecondaryEvent
SequenceDescriptionType
SequenceStatus
ShelfLifeType
SmeStatus
SmsSubstance
Source
SpecialMeasure
SterilizationRequirement
StudySponsorType
SubFilingType
SubIndication
SubmissionPlanStatus
SubstanceLevelClass
SubstanceRoleType
SubstanceType

API Entity Name
SummaryOfTechdocType
SupplementEffectiveDateType
SystemAlertSubjectType
TabFontType
TaskPriority
TaskStatus
TaskSubtype
TaskType
TelephoneNumberType
TermWithdrawalReason
TherapeuticArea
TherapyClass
TrialDesignType
TrialPhaseType
TrialScopeType
TrialSubjectGroupType
UMDNSType
UnitOfMeasurement
UnitOfMeasurePrefix
UnitOfPresentation
ValidStatusProgressions
VariableRepository
VariableSystem
VariableUser
VolumeUnitOfMeasure
WeightUnitOfMeasure

Ennov InSight 7.1.3 API Changes

This table describes the API changes for Ennov InSight 7.1.3.

Ennov InSight 7.1.3 includes the following API support.

Entity Name	API/ Controller	endpoint	API Ennov InSight 7.1.3 updates		Description
			Attribute	Column	
License	PackageSetTypeRegistrationRestController	license/ packageset-registration	Added "/all", "/query" endpoints		
ProductLicense	ProductTypeRegistrationRestController	license/ product-registration	Added "/all", "/query" endpoints		
FullProductPresentation	LicenseFppController	license/full-product-presentation	Added "/all", "/query" endpoints		
LicensePackageSet	LicensePackageSetController	license/ packageset	Added "/all", "/query" endpoints		
LicensePackageSetCountry	LicensePackageSetCountryRestController	license/ packageset/ country	Added "/all", "/query" endpoints		

Entity Name	API/ Controller	endpoint	API Ennov InSight 7.1.3 updates		Description
			Attribute	Column	
AppCountry	ApplicationCountryRestController	/application-country	The following fields are added: — localStartTrial — localFirstVisit — localEndOfRecruitment — localEndOfTrial — localTemporaryHalted — localRestartTemporaryHalted — localEarlyTerminationReasonId — localEarlyTerminationReasonId	— LOCAL_START_OF_TRIAL_DATE — LOCAL_FIRST_VISIT_OF_FIRST_SUBJECT_DATE — LOCAL_END_OF_RECRUITMENT_DATE — LOCAL_END_OF_TRIAL_DATE — LOCAL_TEMP_HALT_DATE — LOCAL_RESTART_OF_TEMP_HALTED_TRIAL — LOCAL_EARLY_TERM_DATE — TERM_WITH_REASON_TYPE_ID	— DB table: .ISM.APP_COUNTRY — DB view: ISM.DV_APP_COUNTRY

Comparison Table API changes between Ennov InSight 7.1.3 and Ennov InSight 7.1

This table describes the API changes between Ennov InSight 7.1.3 and Ennov InSight 7.1.

Entity Name	API/Controller	endpoint	API 7.1.3 Updates		Description
			Attribute	Column	
License	PackageSetTypeRegistrationRestController	license/packageset-registration	Added "/all", "/query" endpoints		
ProductLicense	ProductTypeRegistrationRestController	license/product-registration	Added "/all", "/query" endpoints		
FullProductPresentation	LicenseFppController	license/full-product-presentation	Added "/all", "/query" endpoints		

Entity Name	API/Controller	endpoint	API 7.1.3 Updates		Description
			Attribute	Column	
LicensePackageSet	LicensePackageSetController	license/packageset	Added "/all", "/query" endpoints		
LicensePackageSetCountry	LicensePackageSetCountryRestController	license/packageset/country	Added "/all", "/query" endpoints		
AppCountry	ApplicationCountryRestController	/application-country	The following fields are added: — localStartTrial — localFirstVisit — localEndOfRecruitment — localEndOfTrial — localTemporaryHalted — localRestartTemporaryHalted — localEarlyTerminationReasonId — localEarlyTerminationReasonId	— LOCAL_START_OF_TRIAL_DATE — LOCAL_FIRST_VISIT_OF_FIRST_SUBJECT_DATE — LOCAL_END_OF_RECRUITMENT_DATE — LOCAL_END_OF_TRIAL_DATE — LOCAL_TEMP_HALT_DATE — LOCAL_RESTART_OF_TEMP_HALTED_TRIAL — LOCAL_EARLY_TERM_DATE — TERM_WITH_REASON_TYPE_ID	— DB table: .ISM.APP_COUNTRY — DB view: ISM.DV_APP_COUNTRY

Ennov InSight 7.2 API Changes

This table describes the API changes for Ennov InSight 7.2.

Ennov InSight 7.2 includes the following API support.

Entity Name	API/Controller	Main endpoit	Description
OrphanDesignation	OrphanDesignationRestController	/orphan-designation	
EurdType	EurdTypeRestController	/data-admin/eurd-type	
DomainType	DomainTypeRestController	/data-admin/domain-type	
	ContentOfChangeTypeRestController	/content-of-change-type	
	MedicalProductActionTypeRestController	/medical-product-action-submission-status	
AttachedDocument	LicenseAttachedDocumentRestController	/license/attached-document	Hierarchy: Application->License->MedicinalProductAction->AttachedDocument
ManufacturedItem	ManufacturedItemRestController	/product-family/product/component/manufactured-item	
ManufacturedItemSubstance	ManufacturedItemSubstanceRestController	/product-family/product/component/manufactured-item/substance	
ManufacturedItemReferenceSubstance	ManufacturedItemReferenceSubstanceRestController	/product-family/product/component/manufactured-item/substance/reference	
LicensePackageSetName	LicensePackageSetNameRestController	/license/packageset/name	Hierarchy: Application->License->LicensePackageSetName
MedicinalProduct	LicenseMedicinalProductController	/license/medicinal-product	Hierarchy: Application->License->MedicinalProductAction
MedicinalProductAction	MedicinalProductActionRestController	/license/medicinal-product-action	
Mpname	MedicinalProductMpnameRestController	/license/medicinal-product/mpname	

Entity Name	API/Controller	Main endpoit	Description
MedicinalProductCrossReference	MedicinalProductCrossReferenceRestController	/license/medicinal-product/medicinalProductCrossReference	
DataCarrierType	DataCarrierTypeRestController	/data-admin/data-carrier-type	
DataClassificationType	DataClassificationTypeRestController	/data-admin/data-classification-type	
MarketingStatusReason	MarketingStatusReasonRestController	/data-admin/marketing-status-reason	
	RmsApplicationLegalBasisRestController	/data-admin/rms-app-legal-basis	
	RmsApplicationSubmissionTypeRestController	/data-admin/rms-app-submission-type	
	RmsAtcHumanRestController	/data-admin/rms-atc-human	
	RmsCombinationPackageRestController	/data-admin/rms-combination-package	
	RmsCombinedPharmaDoseFormRestController	/data-admin/rms-combined-pharma-dose-form	
	RmsCombinedTermRestController	/data-admin/rms-combined-term	
	RmsContactPartyRoleController	/data-admin/rms-contact-party-role	
	RmsCountryRestController	/data-admin/rms-country	
	RmsDomainRestController	/data-admin/rms-domain	
	RmsEURegulatoryAuthorisationProcedureRestController	/data-admin/rms-eu-regulatory-authority-procedure	
	RmsIngredientRoleRestController	/data-admin/rms-ingredient-role	

Entity Name	API/Controller	Main endpoit	Description
	RmsLanguageRestController	/data-admin/rms-language	
	RmsLegalStatusSupplyRestController	/data-admin/rms-legal-status-supply	
	RmsManufacturingActivityRestController	/data-admin/rms-manufacturing-activity	
	RmsMarketingStatusRestController	/data-admin/rms-marketing-status	
	RmsMasterFileTypeRestController	/data-admin/rms-master-file-type	
	RmsMedicalProductNamePartTypeController	/data-admin/rms-medical-product-name-part-type	
	RmsPackagingController	/data-admin/rms-packaging	
	RmsPharmaDoseFormRestController	/data-admin/rms-pharma-dose-form	
	RmsProductCategoryController	/data-admin/rms-product-category	
	RmsProductCrossReferenceTypeRestController	/data-admin/rms-product-cross-reference	
	RmsQuantityOperatorRestController	/data-admin/rms-quantity-operator	
	RmsRegulatoryEntitlementTypeController	/data-admin/rms-regulatory-entitlement-type	
	RmsRegulatoryEntitlementStatusConstoller	/data-admin/rms-regulatory-entitlement-status	
	RmsRoutesAndMethodsOfAdministrationRestController	/data-admin/rms-routes-methods-administration	
	RmsShelfLifeController	/data-admin/rms-shelf-life-type	

Entity Name	API/Controller	Main endpoit	Description
	RmsSpecialPrecautionForStorageRestController	/data-admin/rms-special-precaution-storage	
	RmsUnitsOfMeasurementRestController	/data-admin/rms-units-of-measurement	
	RmsUnitsOfPresentationRestController	/data-admin/rms-units-of-presentation	
	RmsXevmpdMedicalDevicesRestController	/data-admin/rms-xevmpd-medical-devices	
	RmsXevmpdMedicinalProductTypeRestController	/data-admin/rms-xevmpd-medicinal-product-type	
	RmsProductInformationDocumentController	/data-admin/rms-product-information-document-type	
	RmsMaterialController	/data-admin/rms-material/	
	RmsMedicalDictionaryForRegActivitiesController	/data-admin/rms-medical-dictionary-for-regulatory-activities/	
	RmsDataClassificationController	/data-admin/rms-data-classification	Data Classification Spor entity
SourceAuthorisation	SourceAuthorisationRestController	/data-admin/source-authorisation	parent is source/ manufacturer
OmsOrgLocation	OmsOrgLocationRestController	data-admin/oms-orglocation	This entity is a symbiosis of two EMA entities: Organisation and Location, which contains the fields of both entities: — number of records = number of Location per Organisation — entityId is ISM.TERMINOLOGY_SYSTEM_LIST_MEMBER.ID

Entity Name	API/Controller	Main endpoit	Description
DeviceCombinationType	DeviceCombinationTypeRestController	/data-admin/device-combination-type	This entity corresponds to the field "Device - Type of Combination" of the "Medical Device" Detail and mapped to SPOR master data set.
PhpId	PhpIdRestController	/product/xpharma-product/php-id	
	ContentOfChangeTypeRestController	/content-of-change-type	
	MedicalProductActionTypeRestController	/medical-product-action-submission-status	
PharmaProductSubstance	XPharmaProductSubstanceRestController	/product/xpharma-product/xpharma-product-substance	
PharmaProductRefSubstance	XPharmaProductRefSubstanceRestController	/product/xpharma-product/xpharma-product-substance/reference	
PharmaProductActiveIngredient	XPharmaProductActiveIngredientRestController	/product/xpharma-product/xpharma-product-active-ingredient	
PharmaProductRefActiveIngredient	XPharmaProductRefActiveIngredientRestController	/product/xpharma-product/xpharma-product-active-ingredient/reference	
PackSizeDetail	PackSizeDetailRestController	/pack-size	New detail under PDS -> Package Set
PackageComponent	PackageComponentRestController	/data-admin/ package-component	New Data Administration entity
ComponentType	ComponentTypeRestController	/data-admin// component-type	New Data Administration entity
RegulatoryEntitlementStatus	RegulatoryEntitlementStatusRestController	/data-admin/ regulatory-entitlement-status	New Data Administration entity
ProvenanceReason	ProvenanceReasonRestController	/data-admin/ provenance-reason	New Data Administration entity

Entity Name	API/Controller	Main endpoit	Description
ProductInformationDocumentType	ProductInformationDocumentTypeRestController	/data-admin/product-information-document-type	New Data Administration entity
ProductCrossReferenceType	ProductCrossReferenceTypeRestController	/data-admin/product-cross-reference-type	New Data Administration entity
ProductCategory	ProductCategoryRestController	/data-admin/product-category	New Data Administration entity
PediatricIndicator	PediatricIndicatorRestController	/data-admin/pediatric-indicator	New Data Administration entity
MedicinalProductNamePartType	MedicinalProductNamePartTypeRestController	/data-admin/medicinal-product-name-part-type	New Data Administration entity
MedicalDeviceUDI	MedicalDeviceUDIRestController	/data-admin/medical-device-udi	New Data Administration entity
MasterFileType	MasterFileTypeRestController	/data-admin/master-file-type	New Data Administration entity
MarketingStatus	MarketingStatusRestController	/data-admin/marketing-status	New Data Administration entity
DeviceTypeofCombination	DeviceTypeofCombinationRestController	/data-admin/device-type-of-combination	New Data Administration entity
AttachedDocumentContentType	AttachedDocumentContentTypeRestController	/data-admin/attached-document-content-type	New Data Administration entity
ApplicationSubmissionType	ApplicationSubmissionTypeRestController	/application-submission-type	New Data Administration entity

Comparison Table API changes between Ennov InSight 7.2 and Ennov InSight 7.0

This table describes the API changes between Ennov InSight 7.2 and Ennov InSight 7.0.

Entity Name	API/Controller	endpoint	API 7.2 Updates		Description
			Attribute	Column	
License	PackageSetTypeRegistrationRestController	"/license/packageset-registration"	The following field is added: — atcFlag	— column ATC_FLAG — size 1 — values "T", "F", "X"	<attr name="T">title.license.atcFlag.applied</attr> <attr name="F">title.license.atcFlag.notApplied</attr> <attr name="X">title.license.atcFlag.notApplicable</attr>

Entity Name	API/Controller	endpoint	API 7.2 Updates		Description
			Attribute	Column	
ProductLicense	ProductTypeRegistrationRestController	"/license/product-registration"	The following field is added: — atcFlag	— column ATC_FLAG — size 1 — values "T", "F", "X"	<attr name="T">title.license.atcFlag.applied</attr> <attr name="F">title.license.atcFlag.notApplied</attr> <attr name="X">title.license.atcFlag.notApplicable</attr>

Entity Name	API/Controller	endpoint	API 7.2 Updates		Description
			Attribute	Column	
LicensePackageSet	LicensePackageSetController	"/license/packageset"	The **EU Presentation Number** is renamed to **Package Set License Code**.	euPresentationNumber/ EU_PRESENTATION_NUMBER size 100 changed to packageSetLicenseCode/ LICENSE_CODE size 100 licenseCode/ PACKSET_LICENSE_CODE mapping changed to licenseCode/ REGISTRATION_CODE	
			The following fields are added: — legalBasisId — authorisationStatusId — authorisationStatusDate	— LEGAL_BASIS_TYPE_ID This field is foreign key to: Class name: LegalBasisType DB table: ism.legal_basis_type. — AUTHORISATION_STATUS_TYPE_ID This field is foreign key to: Class name: RegistrationStatus DB table: ism.lic_status_type. — AUTHORISATION_STATUS_DATE	

Entity Name	API/Controller	endpoint	API 7.2 Updates		Description
			Attribute	Column	
LicensePackageSetCountry	LicensePackageSetCountryRestController	"/license/packageset/country"	The following fields are added: — dataCarrierType — dataCarrierIdentifier — dataCarrierLanguageId — riskOfSupplyShortageFlag — riskOfSupplyShortageComment — marketingStatusReasonTypeId	— DATA_CARRIER_TYPE_ID This field is foreign key to: This field is foreign key to: Class name: DataCarrierType; DB table: ism.data_carrier_type. — DATA_CARRIER_IDENTIFIER size 100 — DATA_CARRIER_LANGUAGE_TYPE_ID This field is foreign key to: Class name: Language; DB table: ism.language_type. — RISK_OF_SUPPLY_SHORTAGE_FLAG Y/N — RISK_OF_SUPPLY_SHORTAGE_COMMENT size 4000 — MARKETING_STATUS_REASON_TYPE_ID This field is foreign key to: Class name: MarketingStatusReason; DB table: ISM.MARKETING_STATUS_REASON_TYPE	— Class name: LicensePackageSetCountry — DB table: ISM.LIC_PRODDET_COUNTRY — DB view: ISM.DV_LIC_PRODDET_COUNTR

Entity Name	API/Controller	endpoint	API 7.2 Updates		Description
			Attribute	Column	
ManufacturingFunctionGlobalDetail	ManufacturingFunctionGlobalDetailRestController	"/data-admin/manufacturing-function-global-detail"	The following field is added: — confidentialityIndicator	DATA_CLASSIFICATION_TYPE_ID This field is foreign key to: Class name: DataClassificationType; DB table: ism.data_classification_type.	
ActiveIngredientDetail	ActiveIngredientDetailRestController	"/detail/ai"	Removed fields: — measureTypeId — lowNumeratorValue — lowNumeratorPrefixId — lowNumeratorUnitId — lowDenominatorValue — lowDenominatorPrefixId — lowDenominatorUnitId — highNumeratorValue — highNumeratorPrefixId — highNumeratorUnitId — highDenominatorValue — highDenominatorPrefixId — highDenominatorUnitId — measurementPoint		Those fields are taken from Active Ingredient under component now.

Entity Name	API/Controller	endpoint	API 7.2 Updates		Description
			Attribute	Column	
MedicalDeviceDetail	MedicalDeviceDetailRestController	"/detail/medical-device"	The following fields are added: — deviceCombinationTypeId — deviceTypeId — deviceIdentifier — deviceTradeName	— DEVICE_COMBINATION_TYPE_ID This field is foreign key to: Class name: DeviceCombinationType DB table: MGR.DEVICE_COMBINATION_TYPE. — DEVICE_TYPE_ID This field is foreign key to: Class name: DeviceType; DB table: MGR.DEVICE_TYPE — DEVICE_IDENTIFIER String field. — DEVICE_TRADENAME String field.	— Class name: MedicalDeviceDetail — DB table: MGR.PDS_MED_DEVICE_CHANGE — DB view: ISM.DV_PDS_MED_DEVICE

Entity Name	API/Controller	endpoint	API 7.2 Updates		Description
			Attribute	Column	
SubstanceDetail	SubstanceDetailRestController	"/detail/substance"	The following fields are added: — presentationMeasureTypeId — presentationLowNumeratorValue — presentationLowNumeratorUnitOfMeasurement — presentationLowNumeratorUnitOfPresentation — presentationHighNumeratorValue — presentationHighNumeratorValue — presentationHighNumeratorUnitOfPresentation — concentrationLowNumeratorValue — concentrationLowNumeratorUnitOfMeasurement — concentrationLowDenominatorValue — concentrationLowDenominatorUnitOfMeasurement — concentrationHighNumeratorValue — concentrationHighNumeratorUnitOfMeasurement — concentration	— MEASURE_TYPE_ID column of MGR.CONCENTRATION_VALUE table DB table: ism.legal_basis_type. — PRESENTATION_LOW_AMT_NUMER_VALUE column of MGR.CONCENTRATION_VALUE table String field. — PRESENTATION_LOW_AMT_NUMER_UNIT_TYPE_ID column of MGR.CONCENTRATION_VALUE table — PRESENTATION_LOW_AMT_NUMER_UOP_TYPE_ID column of MGR.CONCENTRATION_VALUE table. — PRESENTATION_HI_AMT_NUMER_VALUE column of MGR.CONCENTRATION_VALUE table String field. — PRESENTATION_HI_AMT_NUMER_VALUE column of MGR.CONCENTRATION_VALUE table String field.	— Class name:SubstanceDetail — DB table:MGR.PDS_SUBSTANCE_CHANGE — DB view:ISM.DV_PDS_SUBSTANCE

Ennov InSight 7.0 API Changes

This table describes the API changes related to Product Family decoupling between Ennov InSight 7.0 and InSight 6.2.

Ennov InSight 7.0 includes the following API changes:

- Application has moved to the top entity in its own hierarchy.
- Application has a one-to-many relationship with the Product Family via the selectedProducts field.
- FamilyId field is removed.
- The uniqueness criteria for the Application has changed (Uniqueness for the API is used in "/create-or-update" controller operations).

Entity Name	API/Controller	API 6.2	API 7.0 Updates	Description
Application	ApplicationRestController CTAApplicationRestController INDApplicationRestController /application / application/cta / application/ind	— Family Id - required — selectedProducts field - is not required — Application uniqueness rule - (appCode and familyId) or uuid"	— Family Id is removed — selectedProducts field - required — Application uniqueness rule changed - (appCode and appName) or uuid"	If application is not found it executes an uniqueness expression. Unique expression is used in "/ create-or-update" api.
ApplicationCountry	ApplicationCountryRestController / application-country	— Family Id is required — Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	— Family Id is removed — New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	The behavior of how applicationId is retrieved for use in queryFor has changed.
Event	EventRestController / event			
EventCountry	EventCountryRestController /event-country			
EventCountrySchedule	EventCountryScheduleRestController / event-country-schedule			

Entity Name	API/Controller	API 6.2	API 7.0 Updates	Description
AppEventProduct	AppEventProductRestController /event/product	Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	The behavior of how applicationId is retrieved for use in queryFor has changed.
FullProductPresentation	LicenseFppController /license/full-product-presentation	— Family Id is required — Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	— Family Id is removed — New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	
License	This entity is inherited by ProductLicense Doesn't have direct controller	— Family Id is required — registeredAtc is required — Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... } — Old uniqueness rule - "Code and AuthorityId and FamilyID and ApplicationId"	— Family Id is removed — registeredAtc is not required — New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... } — New uniqueness rule - "Code and AuthorityId and ApplicationId"	
MaAttachment	MaAttachmentRestController /full-product-presentation/attachment	— Family Id - required — Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... } — Old uniqueness rule - "name and fppId and familyId and applicationId and	— Family Id is removed — New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... } — New uniqueness rule -	

Entity Name	API/Controller	API 6.2	API 7.0 Updates	Description
ProductLicense	"/license/product-registration"	Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	Please check License as it inherits all changes.	N/A
LicensePackageSet	/license/packageset	Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	The behavior of how applicationId is retrieved for use in queryFor has changed.
LicensePackageSetCountry	/license/packageset/country	— Family Id - required — registeredAtc is required — Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	— Family Id is removed — registeredAtc is not required — New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	
Subset (PDS)	PDSRestController /pds	Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	
Schedule (seq status schedule)	Schedule /sequence-schedule	Family Id is required	Family Id is removed	N/A

Entity Name	API/Controller	API 6.2	API 7.0 Updates	Description
PDS Details	/detail/* CountryDetailRestController ActiveIngredientDetailRestController CharacteristicsDetailRestController CTADetailRestController DoseScheduleDetailRestController FluStrainDetailRestController FunctionDetailRestController IndicationDetailRestController LabeledIndicationDetailRestController LabelingDetailRestController ManufacturerDetailRestController ManufacturingProcessDetailRestController MaterialDetailRestController MedicalDeviceDetailRestController PackageSetDetailRestController PackagingDetailRestController RouteOfAdministrationDetailRestController ShelfLifeDetailRestController SpeciesDetailRestController StepDetailRestController SubstanceDetailRestController WithdrawalTimeDetailRestController	Old behavior - Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	New behavior - Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_NAME }, ... }	The behavior of how applicationId is retrieved for use in queryFor has changed.

Ennov InSight 7.0 API End Points Entities Removed

This table describes the API End Points entities deleted from the Ennov InSight 7.0.

Entity Name	Controller Name	Controller URL
Component Source Type	Component Source Type Rest Controller	/data-admin/component-source-type/
Contact Address Type	Contact Address Type Rest Controller	/data-admin/contact-address-type
Contact Role	Contact Role Rest Controller	/data-admin/contact-role
Contact Type	Contact Type Rest Controller	/data-admin/contact-type/
Discipline Res	Discipline Rest Controller	/data-admin/discipline/
Dossier Metadata Type	Dossier Metadata Type Rest Controller	/data-admin/dossier-metadata-type
PSI Attachment	PSI Attachment Rest Controller	/data-admin/p-s-i-attachment/
Recipient For Type	Recipient For Type Rest Controller	/data-admin/recipient-for-type/
RI Product Type	RI Product Type Rest Controller	/data-admin/ri-product-type/
Substance Attachment	Substance Attachment Rest Controller	/data-admin/substance-attachment

Index

A