Ennov API Documentation

Contents

Chapter 1. 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.

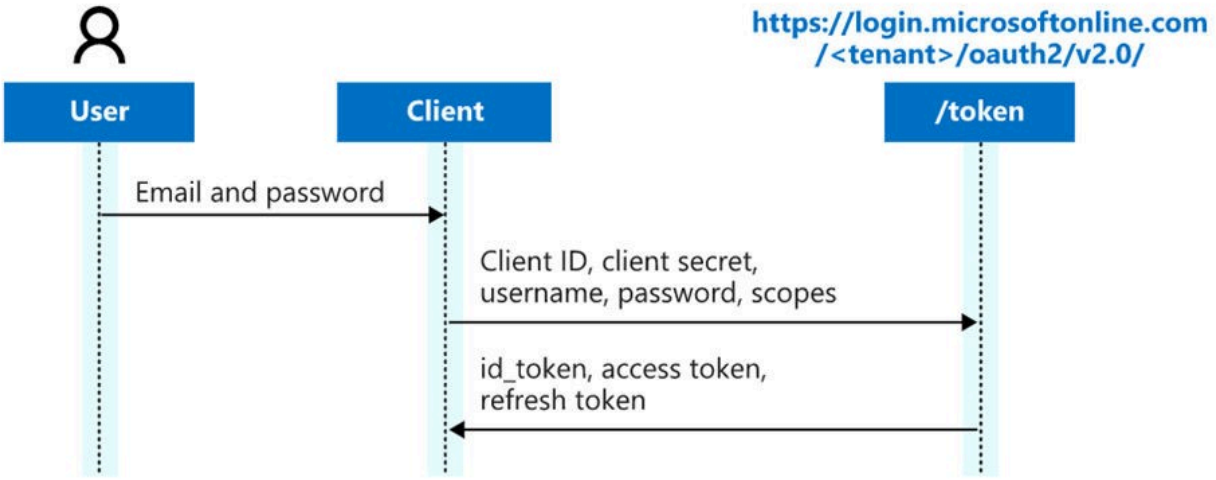
Resource Owner Password Credentials (ROPC)

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.

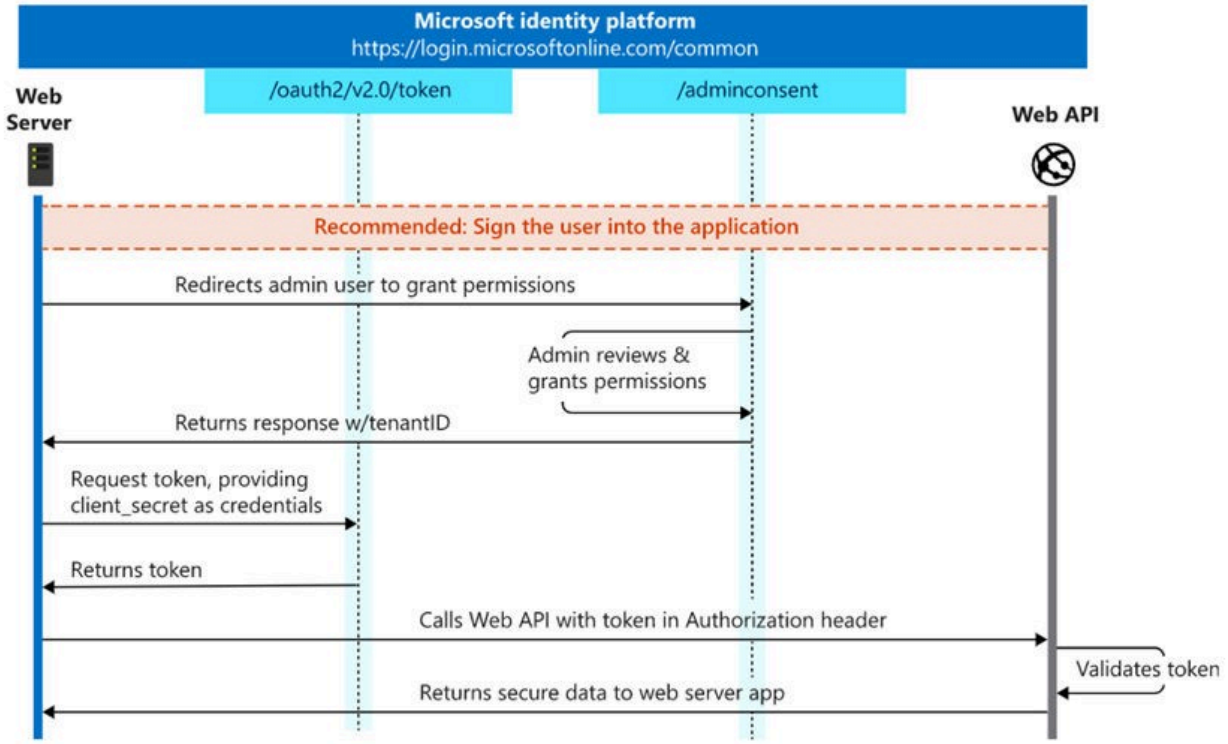


Client Credentials

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.

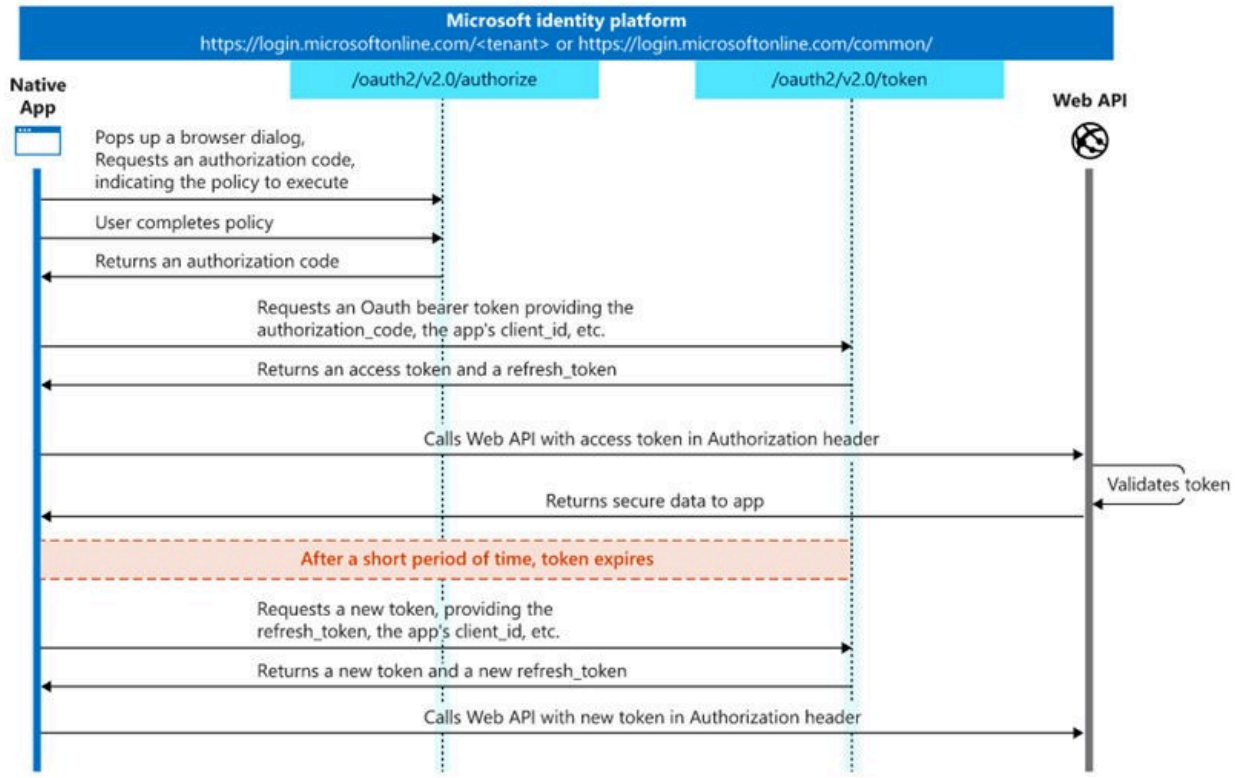
For this process, the auth code flow requires the Oauth flow to redirect the API to access Ennov InSight . You will be able to generate a time expiring code that grants access to the API.

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.

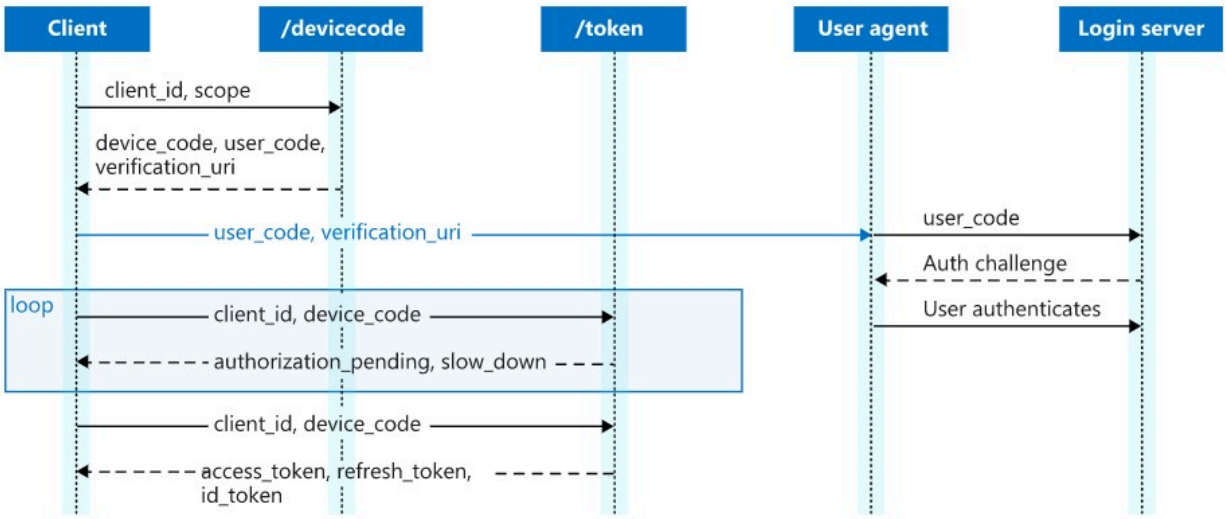
For this process, the device code flow requires the user to authenticate in a two-stage process to generate the bearer token. Authorizing access via the device_code grant should not be performed in a browser on the same client or server that performs the API calls.

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 end-point:

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_ge nerated_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 of-
fline_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-CSRFTOKEN 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:

   • 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:

   • 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
oIjoiMC5BU2dBNGhQb2ViTDAtMDZ3aTdOdk41ZzFBVWczc0w1QjREQk9qUjlxSmNpdHdJel
pBR1kuIiwic2NwIjoiTWFpbC5SZWFkIFVzZXIuUmVhZCIsInN1YiI6Ims4elRKcnQ3d0xRY
Ustem93Q0lEZFJkNm9jb1BWTEExNUVOY2t6cm5yUlUiLCJ0aWQiOiI3OWU4MTNlMi1mNGIy
LTRlZmItYjA4Yi1iMzZmMzc5ODM1MDEiLCJ1bmlxdWVfbmFtZSI6Ikluc0ltclVzZXIxQHJ
pbXNzb3BvYy5vbm1pY3Jvc29mdC5jb20iLCJ1cG4iOiJJbnNJbXJVc2VyMUByaW1zc29wb2
Mub25taWNyb3NvZnQuY29tIiwidXRpIjoiVzVFb2gtczhqa0dHbEtyMDZ6V2NBQSIsInZlc
iI6IjEuMCJ9.Pg0wC99ON6Cgu1z6_h4jGcgllsK74s0sqCI1C_a3S7uMurrdxXToG6y_anq
gmVZdES2hPCfPOIci3p_SJIqIrLGl_0qy42iQVx4VZ_aywYPmrAIilkUTRd78yODRLFnHoc
C21S7bzPX0ZzD24hNZP3ozw6b_8zZcGKGCqvQ8VDGmVcM8eDU_108rmDz3Bfd3vMtpBJrsc usTd-
tyoxunrZJF-taXQL1ZZEKytmbkrN2hylcyNoRuRhTz-5Uae2P0QyWUbAy3XfueTV5ha98Cq81wUoa-
fAjDnunC4RPCTT4Khnd94kIvI8_I7OqiXmr0vcBb3QAGnQOg9JBLnA8jw \",\"refresh_token\":

\"0.ASgA4hPoebL0-06wi7NvN5g1AUg3sL5B4DBOjR21JcitwIzZAGY.AgABAAEAAAAmoFf

GtYxvRrNriQdPKIZ-AgDs_wUA9P9pLd27F_-
gDI59QVqVeY_iIWIt33wtMSAR8gvVkhNBqhx2nOqTPx2Q9HyOm3twaJdgfM0OI2VnTre00Q
jv4NS540wVyfn3RmepwXrEzoieHA6sSos0L_PN6TB8KPCcXWq7Donx9lt6Zv0scNREMfkSufTL_HkrLyNbfV2xzi

kp80tsYW2d-
V6LNh6q4qnv7LBuv0BdFmM7xar4hBYV6WNjhwy1WQoyzZROclUVtyojM3qccOk2Q-0whuNZLb4kwthuQ6WSNoeueO1sE0PCPCK
kuunN_XTlR0tz92F4e5l2oFy6yowx6Sz5DLkdzuvg8VG7zW2aunjZ77IUdBSq94I_dh5-
>Qh46zc0Sn8p3jfJL68YTLmUVXxu_BNW1saXZjP700fHIM4ejNedUH0MZ5LketsgxymwSkscq_6qOUzZ2ILp85KNv0gEznKmZsvD

LLiYpb9o7Jf3DXtHW0No8lRia3Vmh4RUXl86PyeXSFe3MgTB_f3c0VL5D9gqI4UMOlxRrWL7gY9COeGW6JMY
yLw2to0Ic5POJyoaovGD7sXj3wt0ZuC3G5xFKzxltaoiGp3TpyfuLwuwphehq95Q2JtL42yxFwumvgJnLZiwe61ic2wO_eRuXjLAHa9q
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\"id_token\": \"eyJ0eXAiOiJKV1QiLCJhbGciOiJSUzI1NiIsImtpZCI6IjVCM25SeHRRN2ppOGVORGMzR
nkwNUtmOTdaRSJ9.eyJhdWQiOiJiZWIwMzc0OC1lMDQxLTRlMzAtOGQxZC1iNTI1YzhhZGM
wOGMiLCJpc3MiOiJodHRwczovL2xvZ2luLm1pY3Jvc29mdG9ubGluZS5jb20vNzllODEzZT
ltZjRiMi00ZWZiLWIwOGItYjM2ZjM3OTgzNTAxL3YyLjAiLCJpYXQiOjE3MDU0MjIwMDgsI
m5iZiI6MTcwNTQyMjAwOCwiZXhwIjoxNzA1NDIyOTA4LCJhaW8iOiJBVFFBeS84VkFBQUFz
TlZmbmJjVWVHVFYrZGxSNzlwUHFlK29RbjZkNkZLZG9CNUtCbDgwemVoeEVQZkhYcE5iVUx
PMUdwTTZ2VUU3Iiwicmgi0iIwLkFTZ0E0aFBvZWJMMC0wNndpN052TjVnMUFVZzNzTDVCNE
RCT2pSMjFKY2l0d0l6WkFHWS4iLCJzdWIiOiJrOHpUSnJ0N3dMUWFLLXpvd0NJRGRSZDZvY
29QVkxBMTVFTmNrenJuclJVIiwidGlkIjoiNzllODEzZTItZjRiMi00ZWZiLWIwOGItYjM2ZjM3OTgzNTAxIiwidXRpIjoiNngxTEdfaDlEaz
ykTB8BkbgBGBoigWv_jgsps8WAeiNqDBmEB3qIdnrkPauORUwHk74qWN4vSv38bJ6UmUPgH
A_VYSVpy2KjlhNBtYhR2_kk0D_cv2GB7FGTb8nVg5bQP4GOSd7erZsN5TnG-
GJevsdOwyLzQRX6NZRy6EnR0MWgnjRdhdyblIVRKC6PIVbZKSm9ReL3wdS8faACOtvBB5aVkc8MWF6RmqC1nyD7e1zVNYQj5S-
RJRrrLOHjtQItFO_WqIb1c3cmzYskSrwwhBfe0AxDh1I7d6lQT00Gf9LoCO6ykgRhNPw14ugAI2OsFOdT9N4Yop7ClGafjwx4Ub5yw
\"}"

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

Chapter 2. 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 For Data Admin API, click here.

Ennov InSight 7.3 API Changes

Ennov InSight 7.3 Data Administration Lists - CUD Operations

Ennov InSight 7.3 includes the following 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
	Application Status Values
	Application Type Values

	CTA Product Role Values
	Country Values
	Country Values - Health Authority
	Legal Status Values
	MEDRA Term Values
	Medical Condition Investigated Values
	Orphan Status Values
	Procedure Type Values
	Product Information Document Type Values
	Reason for Premature Ending Values
	Region Type Values
	Regulatory Entitlement Type Values
Assembly	Assembly Category Values
	Assembly DTD/Schema Types
	Assembly Status Values
	Assembly Subcategory Values
Assembly Variables	Assembly Repository Variables
	Assembly System Defined Variables
	Assembly User Defined Variables
	Calyx RIM Assembly Variables
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	Action Type Values
	EU Grouping or Worksharing Values

	Event Status Values
	Event Type Values
	Secondary Event Type Values
	Timeline/Event Plan Type Values
	Timeline/Event Plan Values
	Timeline/Event Plan Values - Timeline/Event Plan Countries
Other	Application Submission Type Values
	Attached Document Content Type Values
	Concentration Measure Type Values
	Denominator Unit Values
	Entity XML/UI Mappings
	Indications/Intended Use Values
	Legal Basis Values
	MAH/Development Sponsor/Organization Values
	Previous EV Code Values
	Quantity Unit of Measure Values
	SME Status Values
	Units of Measurement Values
	Unit of Measure Prefix Values
	Unit of Presentation Values
	Weight Unit of Measure Values
Product Detail Set Maintenance	Color Values
	Compendial Designation/Source Values
	Component Type Values
	Data Classification Type Values
	Device – Type of Combination Values
	Dose Frequency Values
	Human Consumption Product Values

	Intended Effect Values
	Label Type Values
	Manufacturer Values
	Manufacturer Values – Global Detail Sets
	Manufacturing Functions Values
	Material Types Values
	Medical Device UDI Values
	Medical Device Part Code Values
	Origin of Substance Values
	Packaging Type Values
	Product Material Values
	Production Type Values
	QC Status Values
	Shape Values
	Shelf Life Category Values
	Shelf Life Type Values
	Species Values
	Storage Condition Values
	Substance Role Values
	Substance Values > Substance International Codes
	Time Unit Values
	Volume Unit of Measure Values
Product Family Maintenance	ATC Values
	Division Values
	Domain Type Values
	EURD ID Values
	Product Family Status Values
	Substance Class Values

	Therapeutic Class Values
Product Maintenance	Applicable Standards Values
	Conformity Assessment Body Values
	Conformity Assessment Path Values
	Country Specific Detail Type Values
	Country Specific Detail Values
	Device Allergenicity Values
	Device Sterility Indicator Values
	Dosage/Pharmaceutical Form Values
	EC Cert Values
	Global Harmonization Task Force (GHTF) Class Values
	Manufacturing Location Values
	Medical Device Values
	Product Category Type Values
	Product Cross Reference Type Values
	Product Status Values
	Route of Administration Values
	Special Measure Values
	Sterilization Requirement Values
	Sterilization Values
	UMDNS Code Values
Project Maintenance	Project Status Values
	Project Type Values
Publishing Requirements Maintenance	Electronic Format Requirement Values
Reference Maintenance	Reference Content Values
	Reference Participant Values
	Reference Status Values
	Reference Type Values

Registration Maintenance	Content of Change Values
	EMA Authorisation Status Values
	Marketing Status Values
	Master File Type Values
	Medical Product Actions/Submission Status Values
	Medicinal Product Name Part Type
	Medicinal Product Name Part Type Values
	Medicinal Product Type Values
	Provenance Reason Values
	Qualified Person Responsible for Pharmacovigilance (QPPV) Values
	Registration Status Values
	Risk of Supply of Shortage Reason Values
Sequence Maintenance	Filing Type Values – Filing Type eCTD Code
	Sequence Status Values
Submission Maintenance	Applicant Contact Type Values
	Applicant Contact Values
	Applicant ID Values
	Application Form Type Values
	Font Definition Values
	Leaf Status Values
	PDF Properties Values
	Promotional Material Audience Type Values
	Promotional Material Type Values
	Regulatory Activity Lead Values
	Sequence Description Values
	Sub Filing Type Values
	Sub Filing Type Values – Sub Filing Type eCTD Code
	Supplement Effective Date Type Values

	Supplement Effect Date Type - Supplement Effective Date Type eCTD
	Telephone Number Type Values
Submission Plan Maintenance	Submission Plan Status Values
Task Maintenance	Secondary Task/Sub-Task Values
	Task/Sub-Task Status Progression Values
	Task/Sub-Task Status Values

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
EUCategoryOfCMRTyp e	EUCategoryOfCMRTyp e-RestController	/data-admin/eucatego-ry-of-cmr-type	EU Category of CMR Type Values
EuDeviceNomenclatur e-Category	EuDeviceNomenclatur eCategoryRestControl ler	/data-admin/eude-vice-no menclature-cate-gory	EU Device Nomenclature Catego-ry Values
EuDeviceNomenclatur e	EuDeviceNomenclatur e-RestController	/data-admin/eude-vice-nomenclature	EU Device Nomenclature Values
FdaDeviceInvitroTerm	FdaDeviceInvitroTerm RestController	/data-admin/fdade-vice-invitro-term	FDA GMDN In-Vitro Term Type Values
FdaDeviceGMDN	FdaDeviceGMDNRest Controller	/data-admin/gmdn	Global Medical Device Nomenclature (GMDN) Code Values
SubstanceSubtypeTy pe	SubstanceSubtypeRe st-Controller	/data-admin/ sub-stance-subtypetype	Substance Subtype Type
OriginOfSubstance	OriginOfSubstanceRe st-Controller	/data-admin/origi-nof-substance	Origin Of Substance Values
CertificateMasterFile	CertificateMasterFileR estController	data-admin/ certifi-cate-master-file	Certificate Master File Values

CertificateType	CertificateTypeRestController	/data-admin/ certificate-type	Certificate Type Values
DataCarrierIdentifier	LicenseDataCarrierId entifierRestController	/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			Descriptio n
			Attribute	Column	Class/Table	
Substance	SubstanceRest Controller	/data-admin/ substance	The following fields are added: — deviceCmrCategory Id —indexNumber — ecNumber	— DEVICE_CMR_CATEGORY_TYPE_ID — INDEX_NUMBER — EC_NUMBE R	Classname:Substance — DB table: ISM.SUBSTANCE — DB view: ISM.DV_SUBSTANCE	— This field is foreign key to: Class name: EUCategoryOf CMRType; DB table: ism.eu _device _-cmr_c ategory _typeRequire d for Substa nces of type 'CMR Substa nce', non mandatory for other types. — Optional — Optional
Manufacturer	SourceRestController(read only)	/data-admin/ source	The following fields are added: — dunsSrnNumber	— ORGANIZATION_IDENTIFIER2	Classname:Source — DB table:ISM.SOURCE	— Optional — Optional

			— authorize dRepresе nt ativeNam e	— AUTHORIZE D_REPRESEN-TATIVE_NAME	— DB view:ISM.DV_-SOURCE	
Manufac-tured Item	Manufactured-ItemRestCon-troller	/ manufac-tured-item	The follow-ing fields are changed: — quantityVal-ue — quantityUnit		Classname: Manufactured Item — ISM.MANU-FACTURED_I TEM — ISM.DV_-MANUFACTUR ED_ITEM	— The field is change d from require d to optiona l and to accept float val-ues (up to 5 dig-its then '.' then up to 5 dig-its. Negativ e values are not permitt ed. — The field is change d to optiona l.
PDS Substance Detail	SubstanceDet ailRestCon-troller	/detail/ sub-stance	The follow-ing fields are added: — originOfSu bstanceId — compositi onGroupin gDescripti on — concentra tionMeasu re-TypeId	— SUBSTANCE _ORIGIN_T YPE_ID — COMPOSITI ON_GROUPI NG_DESCRI PTION — ISM.CONCE NTRATION_	Classname ActiveIngredie ntDetail — DB table: ISM.PDS_S UBSTANCE _CHANGE — DB view: ISM.DV_PD S_SUBSTA	— Optiona l.This field is foreign key to: Class name: OriginO fSubsta nce / ISM.SU BSTAN CE_ORI GIN_TY PE compo

				VALUE.CON CENTRATIO N_MEASUR E_TYPE_ID	NCE	sitionGr ouping Descrip tion / COMPO SITION _GROU PING_ DESCRI PTION. — Optiona l
PDS ActiveIngr edientDet ail	ActiveIngredie ntDetailRestCo ntroller	/detail/ai	The follow- ing fields are added: — originOfSu bstanceId — compositi onGroupin gDescripti on	— SUBSTANCE _ORIGIN_T YPE_ID — COMPOSITI ON_GROUPI NG_DESCRI PTION	Class Name: ActiveIngredie ntDetail — DB table: ISM.PDS_A CTING_CHA NGE — DB view: ISM.DV_PD S_ACTING	— This field is foreign key to: Class name: OriginO fSubsta nce / ISM.SU BSTAN CE_ ORIGIN _TYPE. Optiona l. — Optiona l.
FluStrainD etail	FluStrainDetail RestController	/detail/flus- train	The following field is added: concentratio nMeasureTy peId	ISM.CONCENT RATION_VALU E.CONCENTRA TION_MEASUR E_TYPE_ID		

ManufacturedItemSubstance	ManufacturedItemSubstanceRestController	/product-family/ product/ component/ manufactured-item/ substance	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
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:	ISM.CONCENTRATION_VALUE.CONCENTRA		

			concentrationMeasureTypeId	TION_MEASURE_TYPE_ID		
ReferenceStrength	ReferenceStrengthRestController	/references-trength	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
XPharmaProductSubstance	XPharmaProductSubstanceRestController	— /product/xpharmaproduct — /xpharmaproductsubstance	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
XPharmaProductRefSubstance	XPharmaProductRefSubstanceRestController	— /product/xpharmaproduct — /xpharmaproductsubstance/ reference	The following field is added: concentrationMeasureTypeId	ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		
XPharmaProductActiveIngredient	XPharmaProductActiveIngredientRestController	— /product/xpharmaproduct — /xpharmaproductactiveingredient	The following fields are added: — concentrationMeasureTypeId — substanceId	— ISM.CONCENTRATION_VALUE.CONCENTRATION_MEASURE_TYPE_ID		

				— ISM.SUBSTANCE.ID		
XPharmaProductRefActiveIngredient	XPharmaProductRefActiveIngredientRestController	— /product/xpharmaprod-uct — /xpharmapro-ductactivein-gredient	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 2: 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
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
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());
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());
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());
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());
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());
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());
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());
```

```
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-globaldetail", 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());
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());
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 3: 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/ packagesetregistration	Added "/all", "/query" endpoints		

ProductLicense	ProductTypeRegistrationRestController	license/ productregistration	Added "/all", "/query" endpoints		
FullProductPresentation	LicenseFppController	license/fullproductpresentation	Added "/all", "/query" endpoints		
LicensePackageSet	LicensePackageSetController	license/ packageset	Added "/all", "/query" endpoints		
LicensePackageSetCountry	LicensePackageSetCountryRestController	license/ packageset/ country	Added "/all", "/query" endpoints		
AppCountry	ApplicationCountryRestController	/applicationcountry	The following fields are added: — localStartTrial — localFirstVisit — localEndOfRecruitment — localEndOfTrial — localTemporarYHalted — localRestartTemporaryHalted — localEarlyTerminationReasonId	— LOCAL_START_OF_TRIAL_DATE — LOCAL_FIRST_VISIT_OF_FIRST_SUBJECT_DATE — LOCAL_END_OF_RECRUITMENT_DATE — LOCAL_END_OF_TRIAL_DATE	— DB table: .ISM.APP_COUNTRY — DB view: ISM.DV_APP_COUNTRY

			— localEarly-Term ination-ReasonI d	— LOCAL_-TEMP_ HALT_DATE — LOCAL_-RESTA RT_-OF_TEMP_ HALTED_-TRIAL — LOCAL_-EARLY _TERM_DATE — TERM_-WITH_R EASON_-TYPE_ ID	

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/ packagesetregistration	Added "/all", "/ query" end-points		
ProductLicense	ProductTypeRegistrationRestController	license/productregistration	Added "/all", "/ query" end-points		
FullProduct Presentatio n	LicenseFppController	license/fullproductpresentation	Added "/all", "/ query" end-points		
LicensePackageSet	LicensePackageSetController	license/ packageset	Added "/all", "/ query" end-points		

LicensePack ageSetCoun try	LicensePackageS etCountryRestCo ntroller	license/ packageset/ country	Added "/all", "/ query" end-points		
AppCountry	ApplicationCountr yRestController	/applicationcountry	The follow- ing fields are added: — localStart- Tria l — localFirst- Visit — localEndOf- Re cruitment — localEndOf- Tri al — localTem- pora ryHalted — local- RestartT em- poraryHalt ed — localEarly- Ter mination- Reas onId — localEarly- Ter mination- Reas onId	— LOCAL_S- TART _OF_TRIAL_- DA TE — LOCAL_- FIRST _- VISIT_OF_FI RST_SUB- JECT _DATE — LOCAL_- END_O F_RE- CRUITME NT_DATE — LOCAL_- END_O F_TRIAL_- DATE — LOCAL_- TEMP_ HALT_DATE — LOCAL_- RESTA RT_- OF_TEMP_ HALTED_- TRIA L	— DB table: .IS M.APP_C OUNTRY — DB view: ISM.DV_ APP_COU NTRY

				— LOCAL_- EARLY _TER- M_DATE — TERM_- WITH_ REASON_- TYPE _ID	

Ennov InSight 7.1 API Changes

This table describes the API changes for Ennov InSight 7.3.

Ennov InSight 7.1 includes the following API support.

Entity Name	API/Controller	Main endpoit	Description
OrphanDesignation	OrphanDesigna- tionRe stController	/orphan-designation	
EurdType	EurdTypeRestCon- troll er	/data-admin/eurdtype	
DomainType	DomainTypeRest- Cont roller	/data-admin/domaintype	
	ContentOfChange- Typ eRestCon- troller	/content-of-changetype	
	MedicalProductAc- tion TypeRestCon- troller	/medical-productaction-sub- missionstatus	
AttachedDocu- ment	LicenseAttached- Docu mentRest- Controller	/license/attacheddocument	Hierarchy: Application- >License- >MedicinalProductAction>AttachedDoc- ument

ManufacturedItem	ManufacturedItem-Re stController	/product-family/ product/component/ manufactured-item	
ManufacturedItem-Su bstance	ManufacturedItem-Su bstanceRestControlle r	/product-family/ product/component/ manufactured-item/ substance	
ManufacturedItem-Ref erenceSubstance	ManufacturedItem-Ref erenceSubstanceRest Controller	/product-family/ product/component/ manufactured-item/ substance/reference	
LicensePackage-SetNa me	LicensePackage-SetNa meRestController	/license/packageset/ name	Hierarchy: Application->License->LicensePackageSetName
MedicinalProduct	LicenseMedicinal-Prod uctController	/license/medicinalproduct	Hierarchy: Application->License->MedicinalProductAction
MedicinalProduct-Acti on	MedicinalProductActi onRestController	/license/medicinalproduct-action	
Mpname	MedicinalProduct-Mpn ameRestController	/license/medicinalproduct/mpname	
MedicinalProduct-Cros sReference	MedicinalProduct-Cros sReferenceRest-Contr oller	/license/medicinalproduct/ medicinalProductCros sReference	
DataCarrierType	DataCarrierTypeR-estC ontroller	/data-admin/datacarrier-type	

DataClassification-Typ e	DataClassifica-tionTyp eRestCon-troller	/data-admin/dataclassifica-tion-type	
MarketingStatus-Reas on	MarketingStatus-Reas onRestCon-troller	/data-admin/ marketing-sta-tusreason	
	RmsApplicationLe-gal BasisRestCon-troller	/data-admin/rmsapp-legal-ba-sis	
	RmsApplication-Submi ssionTypeRest-Control ler	/data-admin/rmsapp-submis-sion-type	
	RmsAtcHuman-RestCo ntroller	/data-admin/rms-atchuman	
	RmsCombination-Pack ageRestCon-troller	/data-admin/rmscombina-tion-package	
	RmsCombined-Pharma Dose-FormRestControl ler	/data-admin/rmscom-bined-pharmadose-form	
	RmsCombined-TermR estController	/data-admin/rmscom-bined-term	
	RmsContactParty-Role Controller	/data-admin/rmscontact-par-ty-role	
	RmsCountryRest-Contr	/data-admin/rmscountry	

	oller		
	RmsDomainRest-Contr oller	/data-admin/rmsdomain	
	RmsEURegulatory-Aut horisationPro-cedureR estCon-troller	/data-admin/rms-euregulato-ry-authorityprocedure	
	RmsIngredientRol-eRe stController	/data-admin/rmsingredi-ent-role	
	RmsLanguageR-estCo ntroller	/data-admin/rmslanguage	
	RmsLegalStatus-Suppl yRestCon-troller	/data-admin/rmslegal-sta-tus-supply	
	RmsManufac-turingAct ivityRest-Controller	/data-admin/rmsmanufac-turingactivity	
	RmsMarketingSta-tusR estController	/data-admin/rmsmarket-ing-status	
	RmsMasterFile-TypeR estCon-troller	/data-admin/rmsmaster-file-type	
	RmsMedicalPro-ductN amePart-TypeControll er	/data-admin/rmsmedical-pro-ductname-part-type	
	RmsPackaging-Control ler	/data-admin/rmspackaging	

	RmsPharmaDose-For mRestCon-troller	/data-admin/rmspharma-dose-form	
	RmsProductCate-gory Controller	/data-admin/rmsproduct-cate-gory	
	RmsProductCross-Ref erenceTypeRest-Contr oller	/data-admin/rmsprod-uct-crossreference	
	RmsQuantityOper-ator RestController	/data-admin/rmsquantity-oper-ator	
	RmsRegulatoryEn-title mentTypeCon-troller	/data-admin/rmsregulatoryen-titlement-type	
	RmsRegulatoryEn-title mentStatus-Constoller	/data-admin/rmsregulatoryen-titlement-status	
	RmsRoutesAnd-Metho dsOfAdmin-istrationRe stCon-troller	/data-admin/rmsroutes-meth-odsadministration	
	RmsShelfLifeCon-trolle r	/data-admin/rmsshelf-life-type	
	RmsSpecialPre-cautio nForStorageRest-Contr oller	/data-admin/rmsspecial-pre-cautionstorage	
	RmsUnitsOfMea-sure mentRestCon-troller	/data-admin/rmsunits-of- measurement	

	RmsUnitsOfPresentati onRestController	/data-admin/rmsunits-of-presentation	
	RmsXevmpdMedicalD evicesRestController	/data-admin/rmsxevmpd-medicaldevices	
	RmsXevmpdMedicinal ProductTypeRestCont roller	/data-admin/rmsxevmpd-medicinalproduct-type	
	RmsProductInformati onDocumentControlle r	/data-admin/rmsproduct-informationdocument-type	
	RmsMaterialControlle r	/data-admin/rmsmaterial/	
	RmsMedicalDictionary ForRegActivitiesContr oller	/data-admin/rmsmedical-dictionaryfor-regulatoryactivities/	
	RmsDataClassificatio nController	/data-admin/rmsdata-classification	Data Classification Spor entity
SourceAuthorisation	SourceAuthorisationR estController	/data-admin/sourceauthorisation	parent is source/ manufacturer
OmsOrgLocation	OmsOrgLocationRest Controller	data-admin/omsorglocation	This entity is a combination of two EMA entities: Organization and Location, which contains the fields of both entities: — number of records = number of Locations per Organizsation — entityId is

			ISM.TERMINOLOGY_SYST EM_LIST_MEMBER.ID
DeviceCombinationTy pe	DeviceCombinationTy peRestController	/data-admin/devicecombination-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/xpharmaproduct/php-id	
	ContentOfChangeTyp eRestController	/content-of-changetype	
	MedicalProductAction TypeRestController	/medical-productaction-submissionstatus	
PharmaProductSubst ance	XPharmaProductSubs tanceRestController	/product/xpharmaproduct/xpharmaproduct-substance	
PharmaProductRefSu bstance	XPharmaProductRefS ubstanceRestControll er	/product/xpharmaproduct/xpharmaproduct-substance/ reference	
PharmaProductActive Ingredient	XPharmaProductActiv eIngredientRestContr oller	/product/xpharmaproduct/xpharmaproduct-activeingredient	
PharmaProductRefAct iveIngredient	XPharmaProductRefA ctiveIngredientRestCo ntroller	/product/xpharmaproduct/xpharmaproduct-activeingredient/reference	
PackSizeDetail	PackSizeDetailRestCo ntroller	/pack-size	New detail under PDS -> Package Set

PackageComponent	PackageComponentR estController	/data-admin/ package-component	New Data Administration entity
ComponentType	ComponentTypeRest Controller	/data-admin// component-type	New Data Administration entity
RegulatoryEntitlemen tStatus	RegulatoryEntitlemen tStatusRestController	/data-admin/ regulatoryentitlement-status	New Data Administration entity
ProvenanceReason	ProvenanceReasonRe stController	/data-admin/ provenance-reason	New Data Administration entity
ProductInformationD ocumentType	ProductInformationD ocumentTypeRestCon troller	/data-admin/productinformationdocument-type	New Data Administration entity
ProductCrossReferen ceType	ProductCrossReferen ceTypeRestController	/data-admin/productcross-reference-type	New Data Administration entity
ProductCategory	ProductCategoryRest Controller	/data-admin/productcategory	New Data Administration entity
PediatricIndicator	PediatricIndicatorRes tController	/data-admin/ pediatric-indicator	New Data Administration entity
MedicinalProductNam ePartType	MedicinalProductNam ePartTypeRestControl ler	/data-admin/ medicinal-productname-part-type	New Data Administration entity
MedicalDeviceUDI	MedicalDeviceUDIRes tController	/data-admin/medicaldevice-udi	New Data Administration entity
MasterFileType	MasterFileTypeRestC ontroller	/data-admin/masterfile-type	New Data Administration entity

MarketingStatus	MarketingStatus-RestC ontroller	/data-admin/ marketing-status	New Data Administration entity
DeviceTypeofCom-bin ation	DeviceTypeofCom-bin ationRestCon-troller	/data-admin/devicetype-of-combination	New Data Administration entity
AttachedDocu-mentCo ntentType	AttachedDocu-mentCo ntentType-RestControl ler	/data-admin/ attached-docu-mentcontent-type	New Data Administration entity
ApplicationSub-missio nType	ApplicationSub-missio nTypeRest-Controller	/applicationsubmission-type	New Data Administration entity

Comparison Table API Changes between Ennov InSight 7.1 and Ennov InSight 7.0

This table describes the API changes between Ennov InSight 7.1 and Ennov InSight 7.0.

Entity Name	API/Controller	Endpoint	API 7.3 Updates		Description
			Attribute	Column	
License	PackageSetTypeR egistrationRestCo ntroller	"/license/ packagese-tregistration"	The following field is added: — atcFlag	— column ATC_FLAG — size 1 — values "T", "F", "X"	<attr name="T ">title .li-cens e.atcFl ag.appl ied</ attr> <attr name="F ">ti-tle .licens e.atcFl ag.no-tA pplied< / attr> <attr name="X ">ti-tle .licens e.atcFl ag.no-tA pplica-ble</ attr>
ProductLi-cense	ProductTypeReg-istrationRestContr oller	"/license/productregis-tration"	The following field is added: — atcFlag	— column ATC_FLAG	<attr name="T ">title .li-cens e.atcFl

				— size 1 — values "T", "F", "X"	ag.appl ied</ attr> <attr name="F ">title .licens e.atcFl ag.notA pplied< / attr> <attr name="X ">title .licens e.atcFl ag.notA pplicab le</ attr>
LicensePack ageSet	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	— LEGAL_BASIS _TYPE_ID This field is foreign key to: Class name: LegalBasisType DB table:	

			— authorisation StatusDate	ism.legal_basi s_- type. — AUTHORISATI ON_STATUS_T YPE_ID This field is foreign key to: Class name: RegistrationSt atus DB table: ism.lic_status_ type. — AUTHORISATI ON_STATUS_D ATE	
LicensePa- ck ageSet- Coun try	LicensePackageS etCountryRestCo ntroller	"/license/ packageset/ country"	The following fields are added: — dataCarrierTy pe — dataCarrierId entifier — dataCarrierLa nguageId — riskOfSupply ShortageFlag — riskOfSupply ShortageCom ment — marketingS- ta tusReasonTy peId	— DATA_CARRIE R_TYPE_ID This field is foreign key to: Class name: Data- CarrierTyp e; DB ta- ble: ism.data_carri er_type. — DATA_CARRIE R_IDENTIFIER size 100 — DATA_CARRIE R_LANGUAGE _TYPE_ID This field is foreign key to: Class name: Language; DB ta-	— Class name: Li- censeP ack- ageSe tCoun- try — DB table: ISM.LIC_ PRODDET _COUNTR Y — DB view: ISM.DV_L IC_PROD DET_COU NTR

				ble: ism.language_ type. — RISK_OF_SUP PLY_SHORTAG E_FLAG Y/N — RISK_OF_SUP PLY_SHORTAG E_- COMMENT size 4000 — MARKETING_S TATUS_REASO N_TYPE_ID This field is foreign key to: Class name: MarketingStat us- Reason; DB table: ISM.MARKETI NG_STATUS_R EASON_TYPE	
Manufac- turi ngFunc- tionG lobal- Detail	ManufacturingFun ctionGlobalDetail RestController	"/data-admin/ manu- facturingfunction-glob- aldetail"	The following field is added: — confidentialit yIndicator	DATA_CLASSIFIC ATION_TYPE_ID This field is foreign key to: Class name: Data- Classification Type; DB table: ism.da- ta_classific ation_- type.	
ActiveIngre dientDetail	ActiveIngredientD	"/detail/ai"	Removed fields:		Those fields are taken

	etailRestControlle r		— measureTypeId — lowNumeratorValue — lowNumeratorPrefixId — lowNumeratorUnitId — lowDenominatorValue — lowDenominatorPrefixId — lowDenominatorUnitId — highNumeratorValue — highNumeratorPrefixId — highNumeratorUnitId — highDenominatorValue — highDenominatorPrefixId — highDenominatorUnitId — measurementPoint		from Active Ingredient under component.
MedicalDevi ceDetail	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_COMBINATIO N_TYPE. — DEVICE_TYPE_ID This field is foreign key to: Class name:	— Class name: MedicalID eviceDetail — DB table: MGR.PDS_MED_DEVICE_CHANGE — DB view: ISM.DV_PDS_MED_DEVICE

				DeviceType; DB table: MGR.DEVICE_ TYPE — DEVICE_IDEN TIFIER String field. — DEVICE_TRAD ENAME String field.	
Substance-D etail	SubstanceDetailRestController	"/detail/ substance"	The following fields are added: — presentation MeasureType Id — presentation-L owNumerator Value — presentation-L owNumerator UnitOfMeasurement — presentation-L owNumerator UnitOfPresentation — presentation HighNumerat or-Value	— MEASURE_TYP E_ID column of MGR.CONCEN TRATION_VAL UE table DB table: ism.legal_basi s_-type. — PRESENTATIO N_LOW_AMT_ NUMER_VALU E column of MGR.CONCEN TRATION_VAL UE table String field. — PRESENTATIO N_LOW_AMT_	— Class name:Su bstanceD etail — DB table:MG R.PDS_S UBSTANC E_CHANG E — DB view:ISM. DV_PDS_ SUBSTAN CE

			— presentation HighNumerat or-Value — presentation HighNumerat or-UnitOfPres enta-tion — concentration LowNumerat or-Value — concentra-tion LowNumer-at orUnitOfMeas urement — concentration LowDenomin atorValue — concentration LowDenomin atorUnitOfMe asurement — concentration HighNumerat or-Value — concentration HighNumerator-UnitOfMeas ure-ment —concentration	NUMER_UNIT _-TYPE_ID column of MGR.CONCEN TRATION_VAL UE table — PRESENTATIO N_LOW_AMT_ NUMER_UOP_ TYPE_ID column of MGR.CONCEN TRATION_VAL UE table. — PRESENTATIO N_HI_AMT_N UMER_VALUE col-umn of MGR.CONCEN TRATION_VAL UE table String field. — PRESENTATIO N_HI_AMT_N UMER_VALUE col-umn of AMGR.CONCEN TRATION_VAL UE String Field	

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	ApplicationRestContro ller CTAApplicationRestCo ntroller INDApplicationRestCo ntroller /application / ap- plication/cta / applica- tion/ind	— Family Id required — selectedProducts field - is not required — Application unique- ness rule (appCode and familyId) or uuid"	— Family Id is removed — selectedProducts field - required — Application unique- ness rule changed (app- Code and appName) or uuid"	If application is not found it exe- cutes an unique- ness expression. Unique expres- sion is used in "/ create-orupdate" api.
ApplicationCou ntry	ApplicationCountryRe stController / applica- tion-country	— Family Id is required — Old behavior -	— Family Id is removed — New behavior -	The behavior of how applicationId is
Event	EventRestController / event	Example: { "queryFor": { "applicationId":	Example: { "queryFor": { "applicationId":	retrieved for use in queryFor has changed.
EventCountry	EventCountryRestCon troller /event-country	APPLICATION_N AME }, ... }	APPLICATION_C ODE + " " +	

EventCountrySchedule	EventCountryScheduleRestController / event-countryschedule		APPLICATION_NAME }, ... }	
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-productpresentation	— 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_N	— Family Id is removed — registeredAtc is not required — New behavior Example: { "queryFor": { "applicationId": APPLICATION_C	

		AME }, ... } — Old uniqueness rule - "Code and AuthorityId and FamilyID and ApplicationId"	ODE + " " + APPLICATION_N AME }, ... } — New uniqueness rule - "Code and AuthorityId and ApplicationId"	
MaAttachment	MaAttachmentRestController /full-productpresentation/ attachment	— Family Id required — Old behavior Example: { "queryFor": { "applicationId": APPLICATION_N AME }, ... }	— Family Id is removed — New behavior Example: { "queryFor": { "applicationId": APPLICATION_CODE + " " + APPLICATION_N	
		— Old uniqueness rule - "name and66 fppId and familyId and	AME }, ... }Ennov InSight 7. — New uniquenessEnnov InS rule -	API Documentation ight 7.0 API Changes 3
ProductLicense	"/license/productregistration"	Old behavior Example: { "queryFor": { "applicationId": APPLICATION_NAME }, ... }	Please check License as it inherits all changes.	N/A
LicensePackageSet	/license/packageset	Old behavior Example: { "queryFor":	New behavior Example: { "queryFor":	The behavior of how

		{ "applicationId": APPLICATION_NAM E }, ... }	{ "applicationId": APPLICATION_COD E + " " + APPLICATION_NAM E }, ... }	applicationId is retrieved for use in queryFor has changed.
LicensePackag eSetCountry	/license/packageset/ country	— Family Id required — registeredAtc is re- quired — Old behavior Exam- ple: { "queryFor": { "applicationId": APPLICATION_N AME }, ... }	— Family Id is removed — registeredAtc is not required — New behavior Exam- ple: { "queryFor": { "applicationId": APPLICATION_C ODE + " " + APPLICATION_N AME }, ... }	
Subset (PDS)	PDSRestController /pd s	Old behavior Example: { "queryFor": { "applicationId": APPLICATION_NAM E }, ... }	New behavior Example: { "queryFor": { "applicationId": APPLICATION_COD E + " " + APPLICATION_NAM E }, ... }	
Schedule (seq status schedule)	Schedule /se- quenceschedule	Family Id is required	Family Id is removed	N/A
PDS Details	/detail/*	Old behavior Example:	New behavior Example:	The behavior of

	CountryDetailRestCon troller ActiveIngredientDetail RestController CharacteristicsDetailR estController CTADetailRestControll er DoseScheduleDetailR est-Controller FluStrainDetailRestCo ntroller FunctionDetailRestCo ntroller IndicationDetailRestC on-troller LabeledIndicationDet ail-RestController Labeling-DetailRestCo ntroller ManufacturerDetailRe st-Controller ManufacturingProcess DetailRestController Ma-terialDetailRestCon troller MedicalDeviceDetailR est-Controller PackageSetDetailRest Controller PackagingDetailRestC on-troller RouteOfAdministratio nDetailRestController	{ "queryFor": { "applicationId": APPLICATION_NAM E }, ... }	{ "queryFor": { "applicationId": APPLICATION_COD E + " " + APPLICATION_NAM E }, ... }	how applicationId is retrieved for use in queryFor has changed.

	ShelfLifeDetailRestCo ntroller SpeciesDetailRestCon troller StepDetailRestControl ler SubstanceDetailRestC on-troller WithdrawalTimeDetail RestController			

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-addresstype
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-metadatatype
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/substanceattachment