

Microsoft Dynamics CRM Integration with SAP Signavio Process Intelligence Configuration Guide

For SAP Integration Suite

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1 Prepackaged Content Introduction

1.1 Introduction

This document provides an overview of the artifacts delivered as part of the Microsoft Dynamics CRM Integration with SAP Signavio Process Intelligence Configuration Guide. The document discusses the common configuration steps needed before deploying the Integration Flows within the package. Read this guide carefully before configuring the integration content.

1.2 Coding Samples

Any software coding and/or code lines/strings ("Code") included in this documentation are only examples and are not intended to be used in a productive system environment. The Code is only intended to better explain and visualize the syntax and phrasing rules of certain coding. We do not warrant the correctness and completeness of the Code given herein.

1.3 Internet Hyperlinks

The documentation may contain hyperlinks to the Internet. These hyperlinks are intended to serve as a hint about where to find related information. We do not warrant the availability and the correctness of this related information or the ability of this information to serve a particular purpose.

1.4 Overview

The integration of Microsoft Dynamics CRM and SAP Signavio Process Intelligence processes can be customized. You can customize this process as per business requirements by making adjustments for different components, including adjustments to:

- Integration flow externalized parameters,
- SAP Signavio Process Intelligence setup,
- Value Mappings to modify objects, and fields as per requirement.



If you make modifications to the original integration flows in this package, subsequent developer updates to the package might not reflect as intended. Therefore, consider this while altering any content.

2 Preparing the Systems for Integration

2.1 Prerequisites

To configure the integration content using this guide, you need to have access and authorizations to the systems listed below.

2.2 Access Requirements

- Microsoft Dynamics CRM Tenant Details
- SAP Integration Suite Tenant Details.
- SAP Signavio Process Intelligence Tenant Details

2.3 Authorization Requirements

- Microsoft Dynamics CRM Details
- SAP Integration Suite Tenant Details.
 - AuthGroup.IntegrationDeveloper
- SAP Signavio Process Intelligence Tenant
 - Appropriate authorizations to connect to the SAP Signavio Process Intelligence Tenant.

2.4 Adapter Installation

Installing the Microsoft Dynamics CRM adapter for the SAP Integration Suite is a prerequisite to using this Integration Package.

For more information about the Microsoft Dynamics CRM Adapter, refer to this link [Microsoft Dynamics Adapter for SAP Integration Suite](#).

For information about Adapter installation, see [Consuming Integration Adapters from SAP Business Accelerator Hub](#).

3 Microsoft Dynamics CRM to SAP Signavio Process Intelligence Content Configuration

Microsoft Dynamics CRM, SAP Signavio Process Intelligence, and SAP Integration Suite need to be configured and prepared before the integration content package can be configured and deployed.

3.1 Configuration in Microsoft Dynamics CRM

Before using Microsoft Dynamics CRM, we need to register an app in Microsoft Azure for SAP Cloud Integration. Registering an app allows you to connect to the SAP Integration Suite.

For more information, see [Microsoft Dynamics CRM Configuration](#).

3.2 Configuration in SAP Signavio Process Intelligence

You are required to ensure activation of Ingestion API in SAP Signavio Process Intelligence. Activating the Ingestion API by creating a connection to SAP Integration Suite allows data transfer from an integration flow in SAP Integration Suite to SAP Signavio Process Intelligence for potential Process Mining activities.

For more information, see [API activation in SAP Signavio Process Intelligence](#).

3.3 Value Mapping Configurations

As part of the integration content package, you are provided the following pre-configured Value Mappings:

3.3.1 MS Dynamics CRM to SAP Signavio Process Intelligence Object Input Table

A “List of objects” that needs to be ingested into SAP Signavio Process Intelligence is present in this mapping table.



You can add new objects, however for execution ensure you make the required modifications in the relevant integration flows.

The objects present in the package include:

MSDynamicsCRM, ObjectName
Accounts
Leads
Opportunities
Quotes
audits_leads
audits_opportunities
audits_quotes
Systemusers
Activitypointers

3.3.2 MS Dynamics CRM to SAP Signavio Process Intelligence Object - Fields Inclusion Value Mapping

This mapping table contains a comma-separated "list of fields" that must be extracted for each object in the Object Input Table. The fields included in this list appear in the Signavio target after an object is replicated.



You must configure this list to add additional fields if required. These are essentially Microsoft Dynamics CRM API fields.

Example: List of fields for the account object

MS Dynamics CRM, Object Name	Signavio, InclusionFields
Accounts	accountid, _createdby_value, _ownerid_value, createdon, modifiedon, revenue, industrycode, name, customertypecode

3.3.3 MS Dynamics CRM to SAP Signavio Process Intelligence Tables - Fieldname Datatype Value Mapping

This mapping table contains an object-wise list of field names and data type mappings for the data to be populated in the SAP Signavio Process Intelligence target.

Example: Fieldnames and Datatypes for Signavio_Account table in SAP Signavio Process Intelligence

Signavio_Account, FieldName	Signavio_Account, Datatype
AccountId	String

CreatedDate	Long
CreatedBy	String
LastModifiedDate	Long
OwnerId	String



You must configure this list to add additional fields if required. For execution ensure you make the modifications needed in the relevant mappings.

3.3.4 MS Dynamics CRM to SAP Signavio Process Intelligence - Source to Target Field Value Mapping

This table contains mapping for source to target fields conversion for each object in the Object Input Table. The fields included in this list appear in the SAP Signavio Process Intelligence target after an object is replicated.



You must configure this list to add additional fields if required.

Example: List of fields for the MSDynamicsCRM_leads object

MSDynamicsCRM_leads, statuscode	SAPSignavio, Status
1	New
2	Contacted
3	Qualified
4	Lost
5	Cannot Contact
6	No Longer Interested
7	Canceled

3.3.5 MS Dynamics CRM to SAP Signavio Process Intelligence - Object Start Date Value Mapping

This mapping table contains the execution StartDate for each object in the Object Input Table.

Example: StartDate for the accounts object

MSDynamicsCRM, ObjectName	Signavio, StartDate
Accounts	2024-08-20T00:00:00Z

3.4 Configuration in SAP Integration Suite

This section discusses Integration flow settings, prerequisites, parameters of the Sender and Receiver systems, and other details specific to each integration flow.

To work with the integration flows of this package, copy the prepackaged integration flow scenario to your workspace. Then configure the integration flows. Finally, to activate the integration flows, deploy them.

3.4.1 Configuration in SAP Business Technology Platform (SAP BTP) Connectivity

You need to configure the inbound communication required to set up the connection between a remote sender system and the SAP Integration Suite.

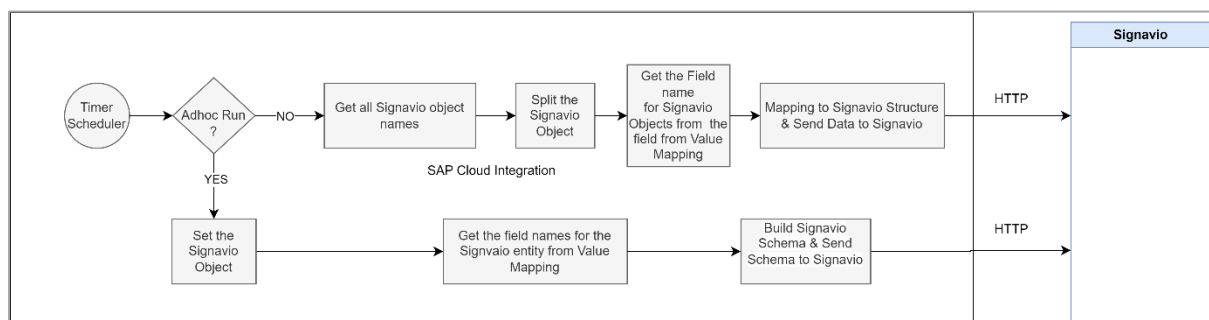
For more information, see [Creating Service Instance and Service Key for Inbound Authentication | SAP Help Portal](#).

3.4.2 Configuring Integration flows: Microsoft Dynamics CRM Integration with SAP Signavio Process Intelligence

This section contains configuration details for integration flows under Microsoft Dynamics CRM Integration with SAP Signavio Package.

3.4.2.1 MS Dynamics CRM to SAP Signavio Process Intelligence - Create Tables

This integration flow is a one-time preparatory step before the actual object replication. A high-level flow is given below.



This is to create target tables for the objects that are replicated from Microsoft Dynamics CRM to SAP Signavio Process Intelligence.



It is recommended to allow at least 15 minutes for this integration flow to execute before the object replication integration flow is triggered.

Purpose

To review the configuration parameters of the integration flow - **MS Dynamics CRM to SAP Signavio Process Intelligence - Create Tables**

Procedure

1. Open **MS Dynamics CRM to SAP Signavio Process Intelligence - Create Tables** integration flow and click on configure.
2. Click on the **Timer** tab to review (or modify if needed) scheduling parameters.

Configure "MS Dynamics CRM to SAP Signavio Process Intelligence - Create Tables"

Timer: Start Timer [StartEvent_28769097]

Run Once

Schedule on Day

Schedule to Recur

Advanced

Schedule on Day

On Date: 09/20/2024

On Time

Every

Time Zone: (UTC 0:00) Greenwich Mean Time(Etc/GMT)

On Time: 01:20 PM

1 min Between 00:00 and 01:00

Throw exception on schedule expiry

- **Run Once:** The integration flow will be executed only once and can be used for the initial load.
- **Schedule on Day:** integration flow will be executed on a specific date/time.
- **Schedule on Recur:** The integration flow will be executed at a regular interval and will replicate the changes from the source system to the target system (suggested mode).



By default, the integration flow has been configured to **Run Once**.

For more information about Scheduling, see [Configuring Timer](#).

3. Click on the **Receiver** tab to review (or modify if needed) connection parameters. For parameter-specific descriptions, see [Parameter Descriptions](#).

Configure "MS Dynamics CRM to SAP Signavio Process Intelligence - Create Tables"

Timer Receiver **More**

Receiver: Mail

Adapter Type: Mail

Connection

Address: smtp.host.com:587

Proxy Type: Internet

Timeout (in ms): 30000

Protection: STARTTLS Optional

Authentication: Plain User/Password

Credential Name: GmaiCredExcep

Processing

From: email@abc.com

To: email@abc.com

Cc:

4. Switch to the **More** tab to view execution options for creating objects in SAP Signavio Process Intelligence. For parameter-specific descriptions, see [Parameter Descriptions](#).

Configure "MS Dynamics CRM to SAP Signavio Process Intelligence - Create Tables"

Timer Receiver **More**

Type: All Parameters

AdhocEntity:

EnableMailNotification: TRUE

ExceptionLogging: TRUE

IflowName: MS Dynamics CRM to SAP Signavio Process Intelligence - Create Tables

IflowPackageName: Microsoft Dynamics CRM Integration with SAP Signavio Process Intelligence

ReceiverBodyLogging: TRUE

ReceiverHeaderLogging:

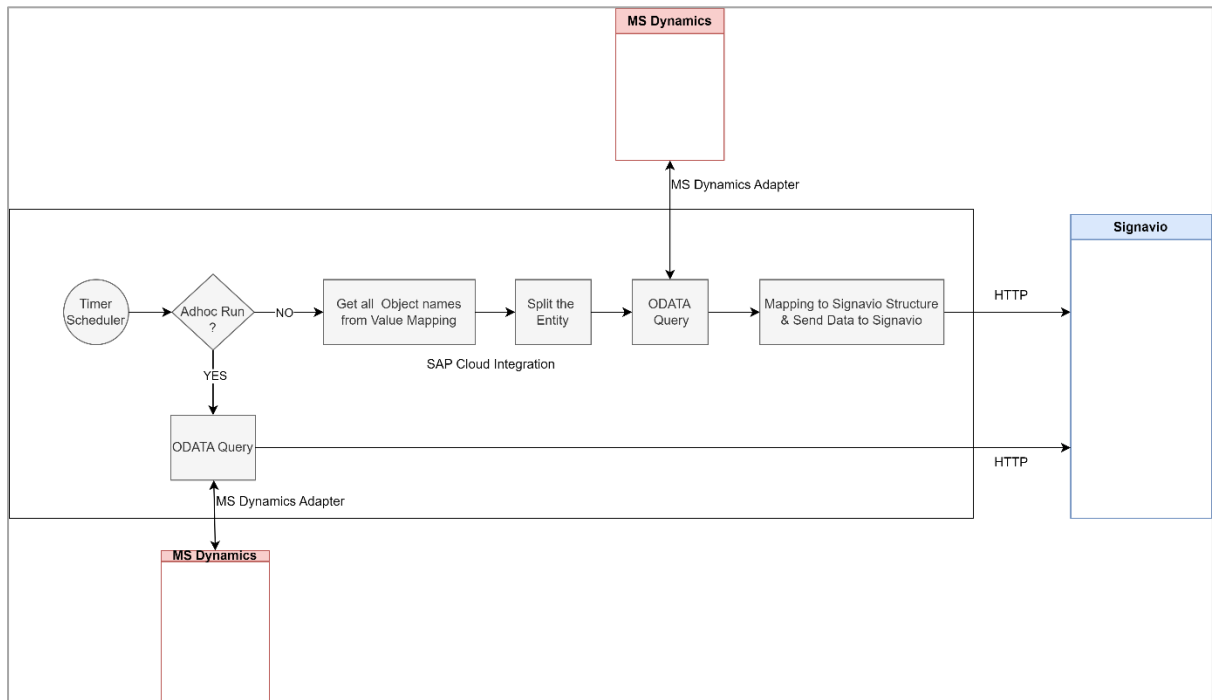
ReceiverPropertyLogging:

SecurityMaterial: Signavio_MS Dynamics CRM_Workspace

Transaction Handling: Not Required

3.4.2.2 MS Dynamics CRM to SAP Signavio Process Intelligence Object Replication

This integration flow replicates objects from Microsoft Dynamics CRM to SAP Signavio Process Intelligence. A high-level overview is provided below.



Purpose

To review the configuration parameters of the integration flow - **MS Dynamics CRM to SAP Signavio Process Intelligence Object Replication**.

Procedure

1. Open **MS Dynamics CRM to SAP Signavio Process Intelligence Object Replication** integration flow and click on configure.
2. Click on the **Timer** tab to review (or modify if needed) scheduling parameters.

Configure "MS Dynamics CRM to SAP Signavio Process Intelligence Object Replication"

Timer Receiver More

Timer: Set Schedule [StartEvent_28769097]


Run Once
 Schedule on Day
 Schedule to Recur
 Advanced

Schedule on Day
 On Date: 09/27/2024
 On Time: 05:32 PM
 Every: 1 min Between 00:00 and 01:00
 Time Zone: (UTC 0:00) Greenwich Mean Time(Etc/GMT)

Throw exception on schedule expiry

- **Run Once:** The integration flow will be executed only once and can be used for the initial load.
- **Schedule on Day:** integration flow will be executed on a specific date/time.

- **Schedule on Recur:** The integration flow will be executed at a regular interval and will replicate the changes from the source system to the target system (suggested mode).

 You can modify the **Timer** configurations based on your scenario and landscape.

For more information about Scheduling, see [Configuring Timer](#).

3. Click on the **Receiver** tab to review (or modify if needed) connection parameters. For parameter-specific descriptions, see [Parameter Descriptions](#).

Configure "MS Dynamics CRM to SAP Signavio Process Intelligence Object Replication"

Timer **Receiver** More

Connection

Receiver: Mail

Adapter Type: Mail

Address: smtp.gmail.com:587

Proxy Type: Internet

Timeout (in ms): 30000

Protection: STARTTLS Optional

Authentication: Plain User/Password

Credential Name: <Your_Security_Credential>

Processing

From: address@abc.com

To: address@abc.com

Cc:

4. Switch to the **More** tab to view execution options for ingesting entities into SAP Signavio Process Intelligence. For parameter-specific descriptions, see [Parameter Descriptions](#).

Configure "MS Dynamics CRM to SAP Signavio Process Intelligence Object Replication"

Timer Receiver **More**

Type: All Parameters

AdhocObject:

Adhoc_StartDate:

EnableMailNotification: TRUE

ExceptionLogging: TRUE

ExecuteFullLoad: TRUE

IflowName: MS Dynamics CRM to SAP Signavio Process Intelligence - Object Replication

IflowPackageName: Microsoft Dynamics CRM Integration with SAP Signavio Process Intelligence

LogSummaryReport: TRUE

ReceiverBodyLogging: TRUE

ReceiverHeaderLogging:

ReceiverPropertyLogging:

SecurityMaterial: Signavio_MS Dynamics CRM_Workspace

SourceBodyLogging: TRUE

SourceHeaderLogging:


SourcePropertyLogging:

Transaction Handling: Not Required

UpdateLastRunVariable: TRUE

3.4.2.3 Parameter Descriptions

- For parameters related to object loads, you can configure the following parameters:

Field	Description
ExecuteFullLoad	If the value is set to TRUE, a full load synchronization will be executed. Acceptable values: TRUE, FALSE.
Adhoc_LastModifiedDate	Set a date for an adhoc execution. Syntax: YYYY-DD-MMTHH24:MI:SS Example: 2024-24-07T00:00:00Z
UpdateLastRunVariable	If the value is set to TRUE, the last run date is saved at the integration flow level. Acceptable values: TRUE, FALSE.
AdhocEntity	Specify an object for which integration flow needs to be triggered <ul style="list-style-type: none"> Object creation on an ad hoc basis Object replication on an ad hoc basis Example: Account <div style="background-color: #e6f2ff; padding: 5px; margin-top: 10px;">  Only a single object can be specified at a time. </div>

- For Logging and Email notifications, you can configure the following parameters:

Field	Description
ReceiverBodyLogging	Specify TRUE to log the payload(Not recommended in a live environment). Possible values: TRUE, FALSE. Use FALSE as a default value.
ExceptionLogging	Specify TRUE to log the exception (Not recommended in a live environment). Possible values: TRUE, FALSE. Use FALSE as a default value.
ReceiverHeaderLogging	Specify TRUE to log the message header (Not recommended in a live environment). Possible values: TRUE, FALSE. Use FALSE as a default value.
ReceiverPropertyLogging	Specify TRUE to log the message property (Not recommended in a live environment). Possible values: TRUE, FALSE. Use FALSE as a default value.
SourceHeaderLogging	Specify TRUE to log the source header. Possible values: TRUE, FALSE. Use FALSE as a default value.
SourcePropertyLogging	Specify TRUE to log source property. Possible values: TRUE, FALSE Use FALSE as a default value.
SourceBodyLogging	Specify TRUE to log the source body. Possible values: TRUE, FALSE. Use FALSE as a default value.
LogSummaryReport	It generates a summary regarding processed entities and execution queries.
EnableMailNotification	In case the value is set to TRUE, the integration flows will send a notification to the email address specified in the To field configured in the mail adapter. The notification is sent in case an exception occurs. Possible values: TRUE, FALSE

- For Fields related to integration flow descriptions, you can configure the following parameters:

Field	Description
Iflowname	Specify a description for the integration flow name.
Iflowpackagename	Specify a description of the related integration flow packages.
Security Material	Specify the security artifact representing the user credentials.

- For other important parameters related to SAP Integration Suite configuration, refer to the below fields:

Field	Description
CI Tenant Address	Specify the hostname of your Cloud Integration tenant. Example: <a href="https://<yourhost>.hana.ondemand.com">https://<yourhost>.hana.ondemand.com
Credential Name	Specify the credential created to connect to the Cloud Integration Tenant. You must create this artifact as a security credential.

4 Deploying the Integration Content

After ensuring the integration flows are configured to your requirements, you must deploy all the objects contained in the package. However, the correct order of deployment must be followed to avoid errors.

Purpose

To deploy the contents of **Microsoft Dynamics CRM Integration with SAP Signavio Process Intelligence** integration package.

Procedure

1. Deploy Microsoft Dynamics CRM and SAP Signavio Process Intelligence credentials from **Security Material**. For more information, see [Appendix](#).
2. Deploy the value mappings listed under [Value Mapping Configurations](#).
3. Deploy integration flow listed under [MS Dynamics CRM to SAP Signavio Process Intelligence - Create Tables](#).
4. Deploy all Integration Flows under the package.

After the deployment of the above assets, you can now run the integration flows.

5 Running the Content

Purpose

To execute the integration flows in the **Microsoft Dynamics CRM Integration with SAP Signavio Process Intelligence** integration package.

Procedure

1. Run **MS Dynamics CRM to SAP Signavio Process Intelligence - Create Tables** as a one-time step to create tables in SAP Signavio Process Intelligence.
2. Run delta or full loads for specific or all entities by executing **MS Dynamics CRM to SAP Signavio Process Intelligence Object Replication**. You can execute Delta and Full load by configuring the parameters mentioned below:
 - a. **ExecuteFullLoad** has the highest priority; If set to TRUE, a full load for all entities will be performed. **StartDate** in value mapping and **Adhoc_LastModifiedDate** in the **More** tab will be ignored.



It is recommended to utilize AdhocEntity in conjunction with ExecuteFullLoad for object-wise loads.

- b. Secondly, **StartDate** in **MS Dynamics CRM to SAP Signavio Process Intelligence - Object Start Date Value Mapping** determines the execution timings if **ExecuteFullLoad** is empty. This is similar to a delta load.
- c. Finally, **Adhoc_LastModifiedDate** is used for execution, if **StartDate** and **ExecuteFullLoad** parameters are not populated. This is similar to a delta load for an ad hoc date.




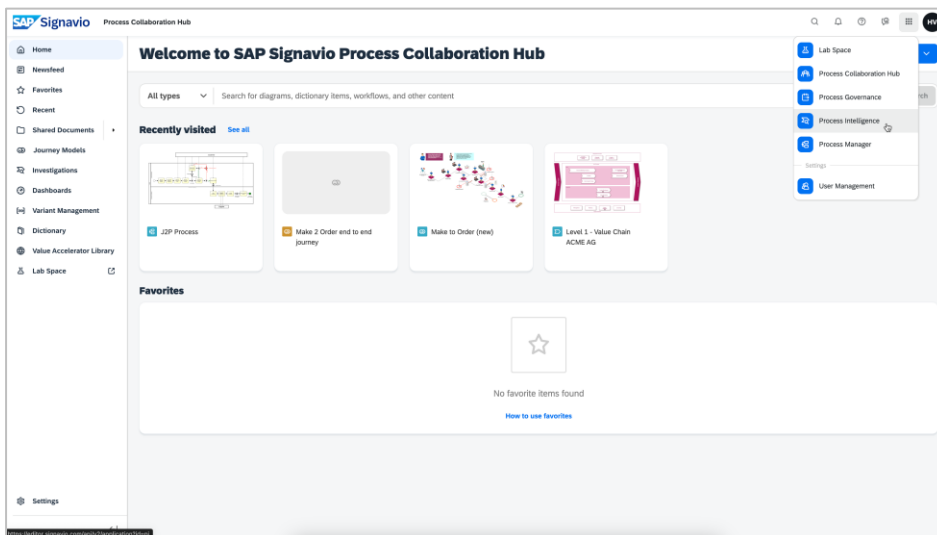
Ensure that you have set **UpdateLastRunVariable** to **FALSE** for your ad hoc loads to avoid conflict with your scheduled runs.

6 Appendix

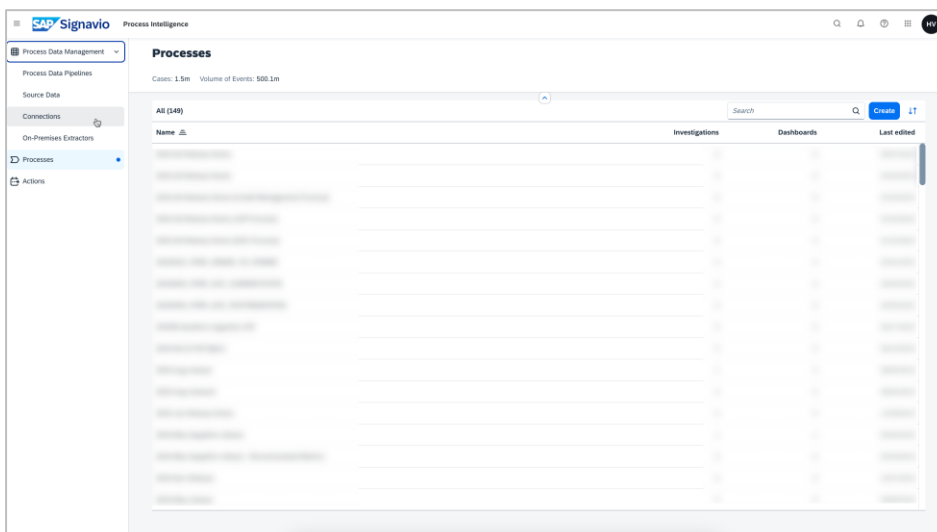
6.1 API activation in SAP Signavio Process Intelligence

Procedure

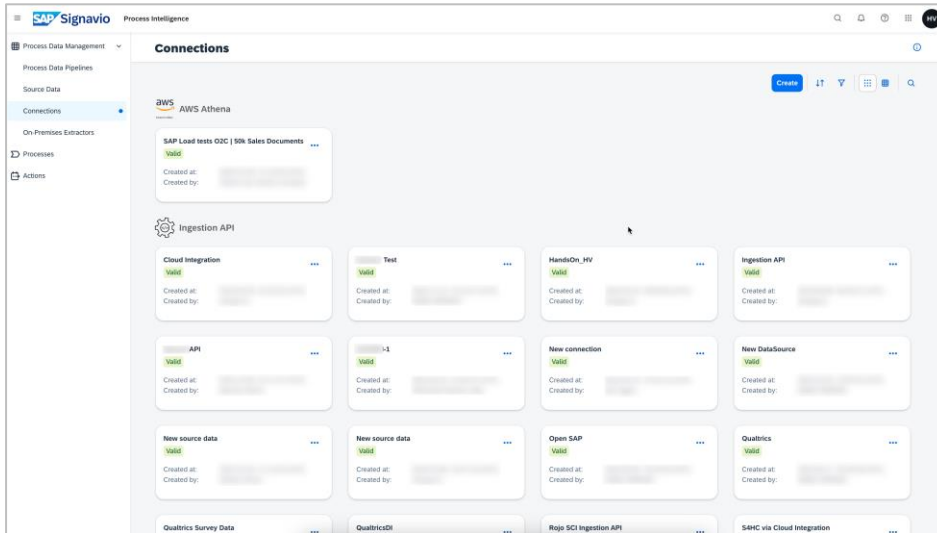
1. On the SAP Signavio Process Intelligence workspace, Click  on the top right and select **Process Intelligence** from the dropdown.



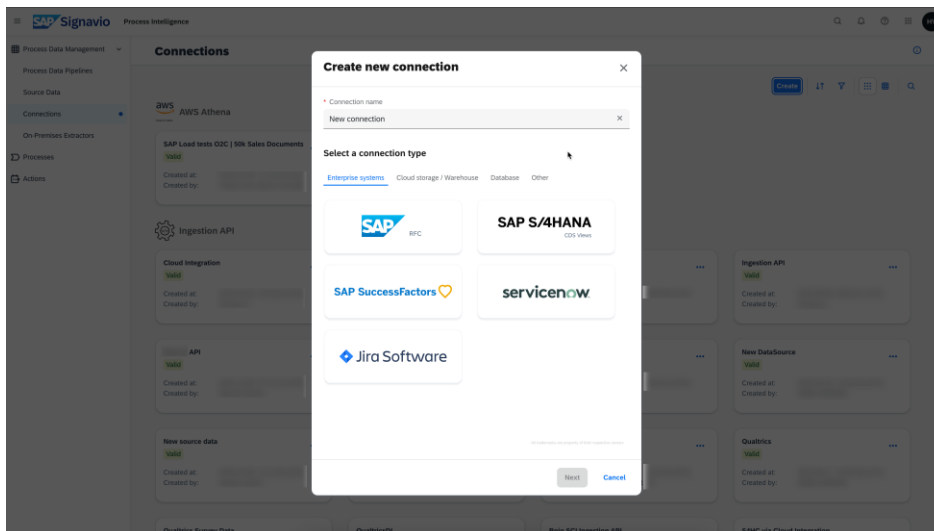
2. Select **Connections** under **Process Data Management** from the left side menu bar.



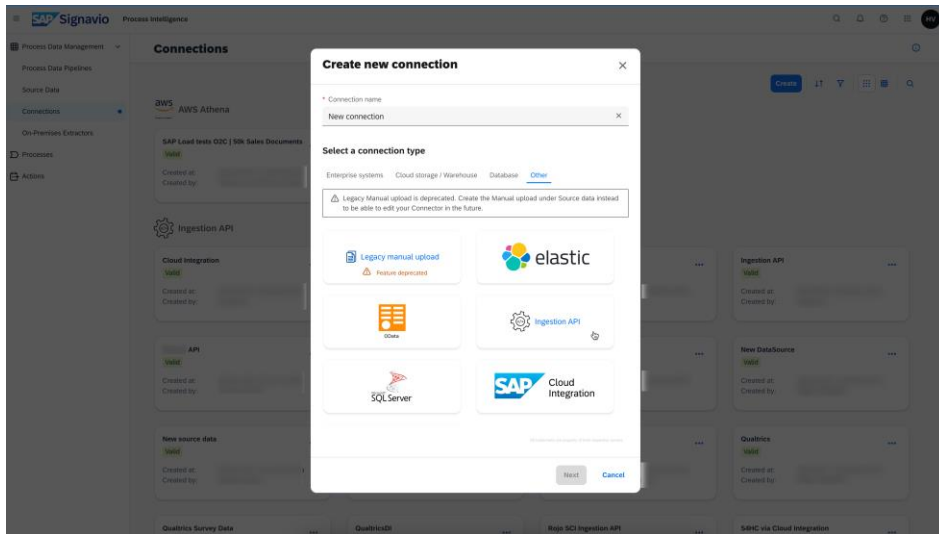
3. Under **Connections**, Click **Create**.



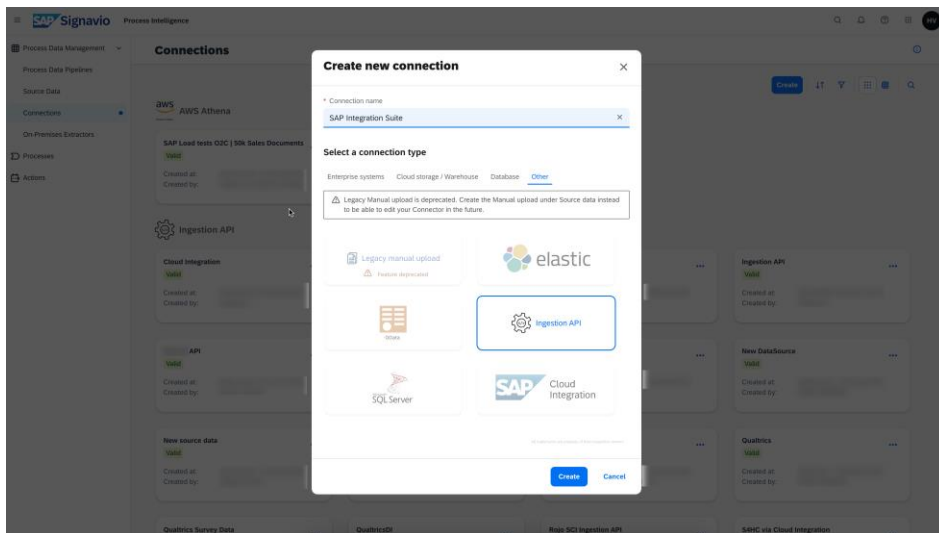
4. A **Create new Connection** window pops up.



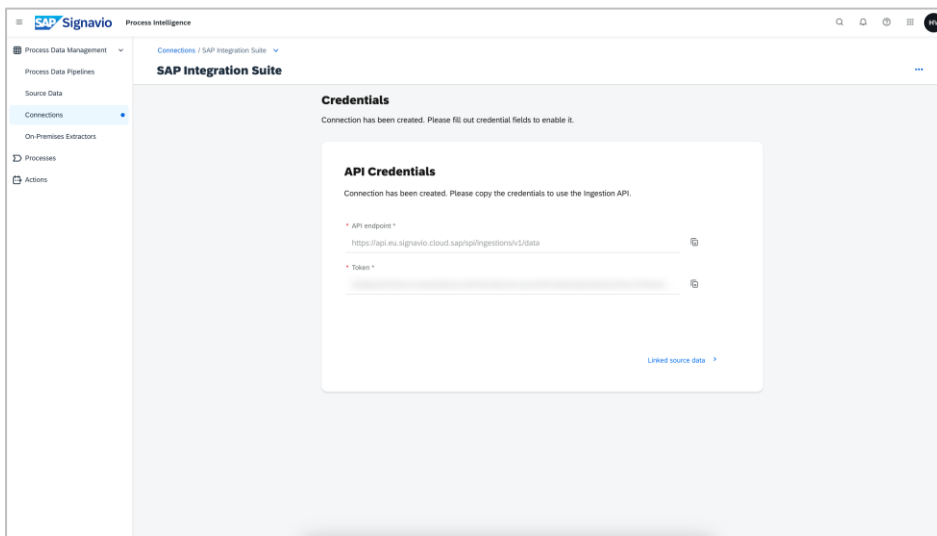
5. Switch to the **Other** and select the **connection** type as **Ingestion API**.



6. Finally, provide a **Connection name** and Click **Create** to finish the process.



7. A confirmation message reads “A new connection has been created”.



You can note the following details to be used later:

- The API endpoint for your specific tenant. The URL of the endpoint can vary based on the region your SAP Signavio Process Intelligence workspace is hosted in.
- Ingestion API Token that is required during configuration for SAP Integration Suite. You must add the above token as a **Secure Parameter** in **Security Material**.

For further information on the ingestion API, check out the official SAP Signavio Process Intelligence Ingestion API documentation.

6.2 Microsoft Dynamics CRM Configuration

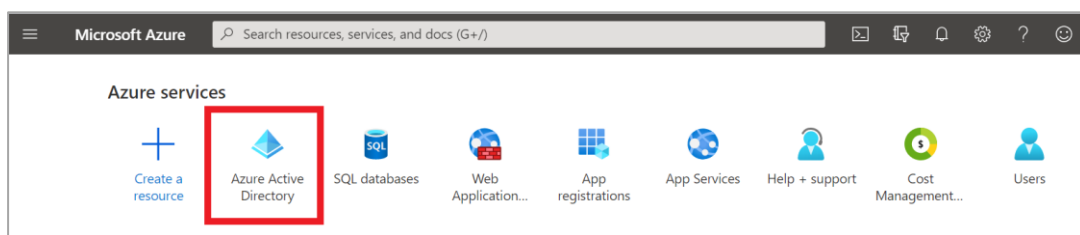
To connect SAP Cloud Integration to Microsoft Dynamics CRM, we need to register an app in Microsoft Azure for SAP Cloud Integration.

Purpose

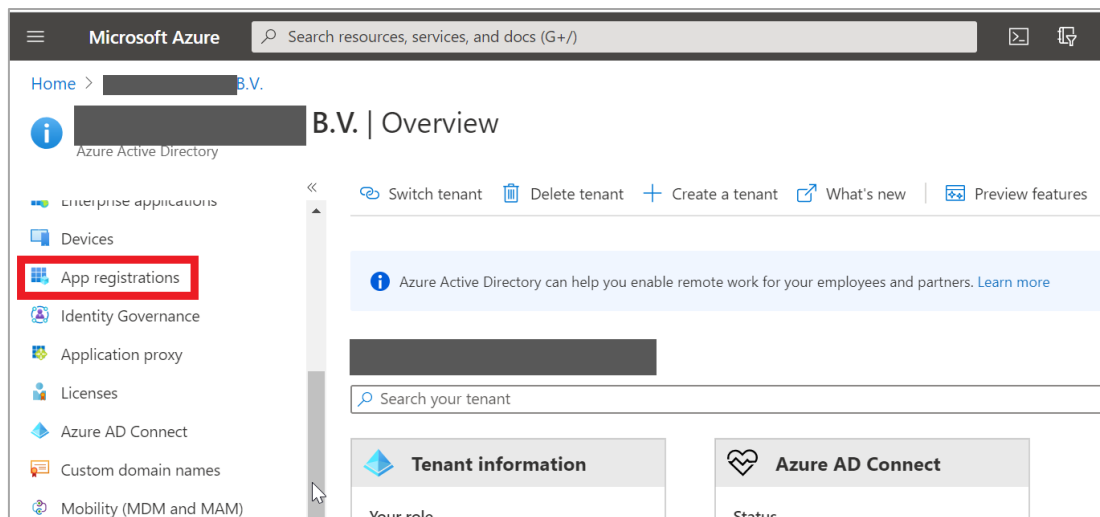
To register an application in Microsoft Azure

Procedure

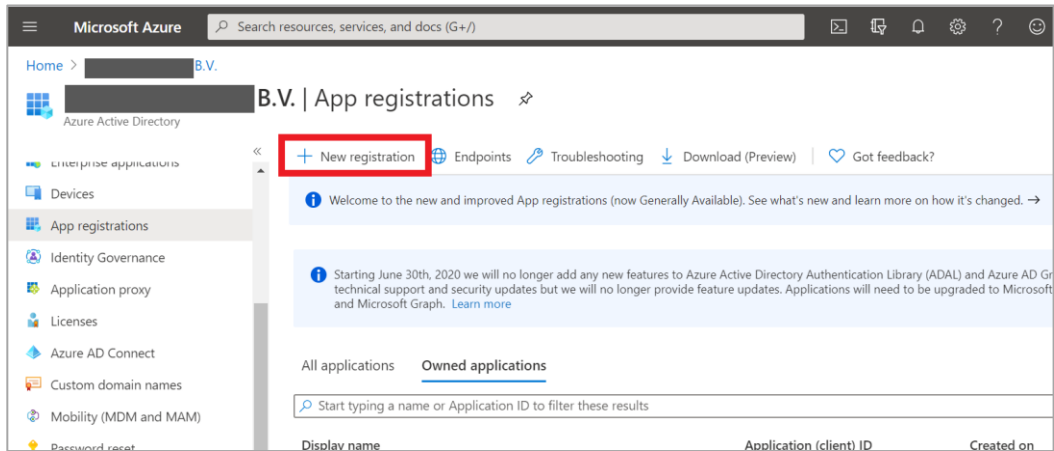
1. Access your Microsoft Azure page using an account with an administrative role. You can access it using the link: <http://portal.azure.com>
2. Select Azure Active Directory.



3. Select App registrations.



4. Select New registration.



5. Fill in the Name, select an option for Supported account types, fill in the Redirect URI, and Click Register.

Register an application

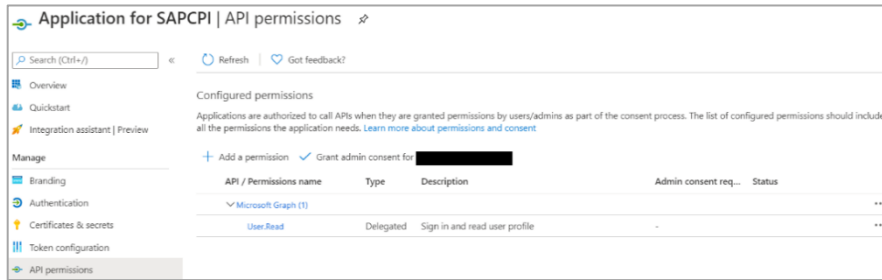
* Name
The user-facing display name for this application (this can be changed later).

Supported account types
Who can use this application or access this API?
 Accounts in this organizational directory only ([redacted])
 Accounts in any organizational directory (Any Azure AD directory - Multitenant)
 Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
 Personal Microsoft accounts only
[Help me choose...](#)

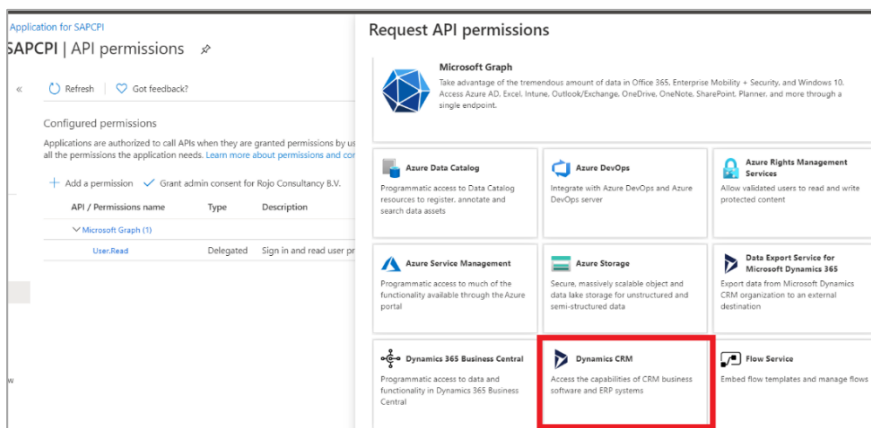
Redirect URI (optional)
We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

By proceeding, you agree to the [Microsoft Platform Policies](#)

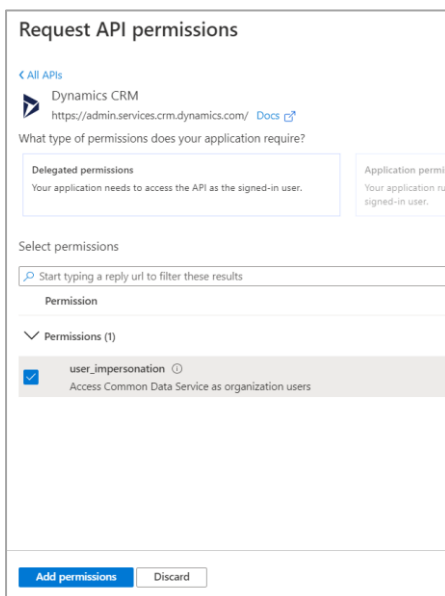
6. Select API permissions on the left menu to add permissions.



7. Select the Dynamics CRM tile.



8. Assign and add permission. In the example below, the user_impersonation permission has been added.



9. Next, you must Grant consent.

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission Grant admin consent for ██████████ B.V.

API / Permissions name	Type	Description	Admin consent req...	Status
▼ Dynamics CRM (1)				...
user_impersonation	Delegated	Access Common Data Service as organization users	-	...
▼ Microsoft Graph (1)				...
User.Read	Delegated	Sign in and read user profile	-	...

10. Enable the toggle under Allow public client flows to Yes.

Manage

- Branding
- Authentication**
- Certificates & secrets
- Token configuration
- API permissions
- Expose an API
- App roles | Preview
- Owners
- Roles and administrators | Preview
- Manifest

Support + Troubleshooting

- Troubleshooting
- New support request

Supported account types

Who can use this application or access this API?

Accounts in this organizational directory only ██████████ only - Single tenant

Accounts in any organizational directory (Any Azure AD directory - Multitenant)

[Help me decide...](#)

⚠ Due to temporary differences in supported functionality, we don't recommend enabling personal Microsoft accounts for an existing registration. If you need to enable personal accounts, you can do so using the manifest editor. [Learn more about these restrictions.](#)

Advanced settings

Allow public client flows ⓘ

Enable the following mobile and desktop flows:

Yes No

- App collects plaintext password (Resource Owner Password Credential Flow) [Learn more](#)
- No keyboard (Device Code Flow) [Learn more](#)
- SSO for domain-joined Windows (Windows Integrated Auth Flow) [Learn more](#)

i If the "Allow public client flows" is set to Yes, you do not need to set the Client Secret in the adapter. In case the "Allow public client flows" is set to No, then it is necessary to set the Client Secret in the adapter.

11. Copy the value of the Application (client) ID. This value will be later needed in the adapter and be used as the Client ID.

Application for SAPCPI

Search (Ctrl+F) Delete Endpoints

Overview Get a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →

Essentials

Display name : Application for SAPCPI	Supported account types : My organization only
Application (client) ID : ██████████	Redirect URIs : Add a Redirect URI
Directory (tenant) ID : ██████████	Application ID URI : Add an Application ID URI
Object ID : ██████████	Managed application in L... : Application for SAPCPI

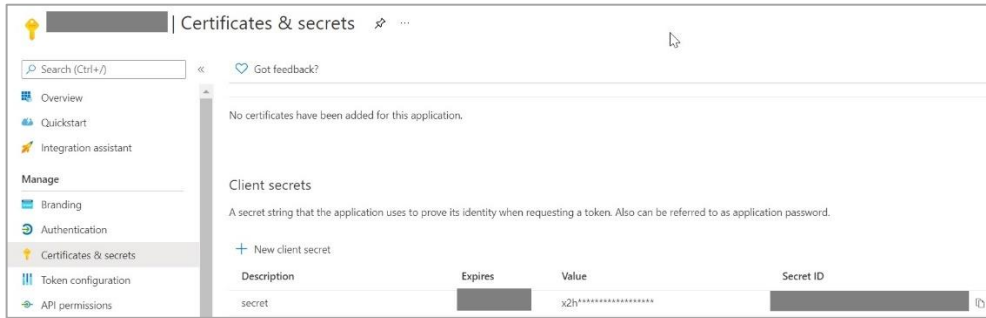
Welcome to the new and improved App registrations. Looking to learn how it's changed from App registrations (Legacy)? [Learn more](#)

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical support and longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)



In case you will be using “OAuth – Client Credentials Secret”, the Directory (tenant) ID shown in the figure below the Application (client) ID should also be copied.

Furthermore, it will also be necessary to create a new Client Secret under the “Certificates & secret” section as shown below.



7 References

For more information on connecting and authenticating against the adapters used in this integration content, refer to the following links:

- [Mail Receiver Adapter](#)
- [Microsoft Dynamics CRM Receiver Adapter](#)
- [HTTP Receiver Adapter](#)