



**SAP S/4HANA Business Partner to Sirion  
CLM Supplier - SAP CI Configuration  
Guide**

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## Document History

The following table shows the document history:

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## 1. Introduction

This document provides a comprehensive guide to the key configuration steps required for seamless integration between SAP S/4HANA and Sirion Contract Lifecycle Management (**CLM**). The integration ensures that Business Partners (**BP**) created/updated in SAP S/4HANA are automatically transitioned into Sirion CLM under the **Supplier** module.

When a Business Partner is created or updated in SAP S/4HANA, the integration triggers the creation or update of a corresponding supplier record in Sirion CLM. This synchronization ensures that supplier data, including key details such as vendor IDs, contact information, and compliance data, remains consistent across both platforms. The integration supports real-time or scheduled data transfers, depending on the configured business rules, enabling a unified supplier management process and ensuring accurate supplier information for contract lifecycle management.

Refer to the image below to understand the integration workflow between SAP S/4HANA and Sirion CLM.

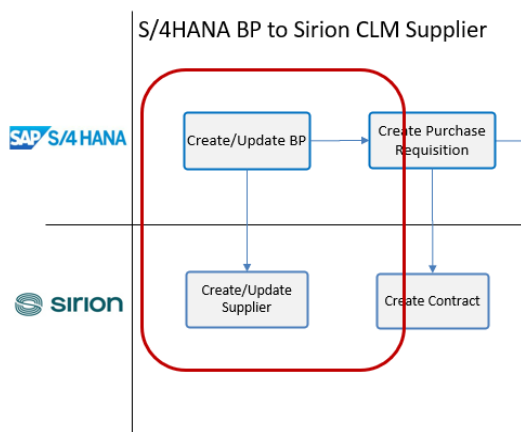


Figure 1: Integration Workflow

- Pre-requisites
  - Sirion CLM Configuration
  - SAP S/4HANA Configuration
  - SAP S/4HANA – Sirion CLM Mapping
- SAP CI configurations
  - Configure and Deploy iFlow on SAP CI
  - Security Artifacts Setup
  - Integration Flow Configuration

### 1.1. Data Synchronization between SAP S/4HANA and Sirion CLM

The integration streamlines and automates business partner workflow, ensuring efficient contract supplier management. The following is a technical view of the data flow between the systems involved in the implementation:

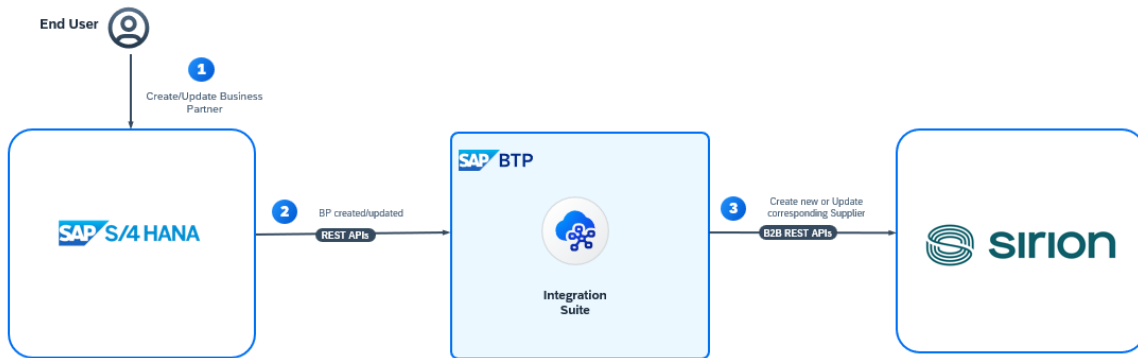


Figure 2: Data Flow Between the Systems

- When a Business Partner is created or updated in SAP S/4HANA (Step 1), the relevant metadata is extracted via SAP Cloud Integration (Step 2). The system then checks for an existing supplier record in Sirion CLM. If found, the supplier record is updated; otherwise, a new supplier record is created (Step 3).

## 1.2. Intended Audience

This document is intended for the following teams:

- Integration Developers
- Business Users
- Product Management

## 2. Pre-requisites

This integration setup requires additional configuration steps in Sirion and SAP S/4HANA, as described in the following steps:

### 2.1. Sirion CLM Configuration

#### 2.1.1. API OAuth 2.0 Credentials

Administrator should be able to generate the OAuth Client credentials for Sirion B2B APIs. The administrator will share the 'OAuth Client Id' and 'OAuth Client Secret' which will be used in the subsequent configuration steps.

#### 2.1.2. iFlow: Replicate Business Partner from SAP S4HANA to Supplier in Sirion CLM

##### 2.1.2.1. Metadata Fields

The following table shows the required metadata fields to be configured in Sirion for this iFlow.s

- **Supplier**

S. No.	Sirion Supplier Field Name	Field Type
1.	ID	Text (auto-generated)
2.	SAP Business Partner ID	Text
3.	Name	Text
4.	Business Partner StreetName	Text
5.	Business Partner PostalCode	Text
6.	Business Partner CityName	Text
7.	Business Partner Country	Single-select
8.	Business Partner Region	Single-select
9.	Company Code	Single-select
10.	GL Account	Single-select
11.	Purchasing Organization	Single-select
12.	Order Currency	Single-select

Table 1: Supplier Metadata

## 2.2. SAP S/4HANA Configuration

### 2.2.1. iFlow: Replicate Business Partner from SAP S4HANA to Supplier in Sirion CLM

#### 2.2.1.1. API Setup

##### S/4HANA Business Partner API (ODATA)

The following API need to be enabled from the SAP S/4HANA Developer Portal, with the required authentication method and user credentials configured.

1. This API is being used to fetch modified Business Partners and the related metadata within given time-range.

<SAP S/4HANA Instance Base URL>/API\_BUSINESS\_PARTNER

#### 2.2.1.2. Metadata Fields

The following table shows the required metadata fields to be configured in SAP S/4HANA Business Partner for this iFlow.

S. No.	Name	Type
1.	<b>Business Partner</b>	Number (auto-generated)
2.	<b>Business Partner (Gen.):</b> Address -> Name	Text
3.	<b>Business Partner (Gen.):</b> Address -> Street/House number	Text
4.	<b>Business Partner (Gen.):</b> Address -> Postal Code/City	Text
5.	<b>Business Partner (Gen.):</b> Address -> Country/Reg.	Single-select
6.	<b>Business Partner (Gen.):</b> Address -> Region	Single-select
7.	<b>Supplier (Fin.Accounting):</b> Company Code -> Company Code	Single-select
8.	<b>Supplier (Fin.Accounting):</b> Company Code -> Reconciliation account	Single-select
9.	<b>Supplier:</b> Purchasing -> Purchasing Organization	Single-select
10.	<b>Supplier:</b> Purchasing -> Order currency	Single-select

Table 2: BP Fields Metadata

## 2.3. Master Data Mapping

Certain fields require maintaining cross-references between Sirion and their corresponding values in SAP S/4HANA. This is achieved using the **Value Mapping** functionality in SAP CI.

Extract all possible values from both systems and create the master data mapping for the given fields mentioned in the following section: this will be used while configuring the Value Mapping artifact. Refer to 'Value Mappings' sub-headings under **Section 3.3** later in this guide.

## 2.4. Field Mappings

In this section, the field mappings mentioned are customizable and can be enhanced based on the respective Sirion CLM and SAP S/4HANA metadata configurations.

### 2.4.1. iFlow: Replicate Business Partner from SAP S4HANA to Supplier in Sirion CLM

- **SAP S/4HANA Business Partner to Sirion Supplier**

S. No.	SAP S/4HANA Field Name	Sirion Supplier Field Name	Comments
1.	<b>Business Partner</b>	SAP Business Partner ID	Auto-generated in S/4HANA
2.	<b>Business Partner (Gen.):</b> Address -> Name	Name	
3.	<b>Business Partner (Gen.):</b> Address -> Street/House number	Business Partner StreetName	
4.	<b>Business Partner (Gen.):</b> Address -> Postal Code/City	Business Partner PostalCode	
5.	<b>Business Partner (Gen.):</b> Address -> Postal Code/City	Business Partner CityName	
6.	<b>Business Partner (Gen.):</b> Address -> Country/Reg.	Business Partner Country	Value mapping used
7.	<b>Business Partner (Gen.):</b> Address -> Region	Business Partner Region	Value mapping used
8.	<b>Supplier (Fin.Accounting):</b> Company Code -> Company Code	Company Code	Value mapping used

9.	<b>Supplier (Fin.Accounting):</b> Company Code -> Reconciliation account	GL Account	Value mapping used
10.	<b>Supplier:</b> Purchasing -> Purchasing Organization	Purchasing Organization	Value mapping used
11.	<b>Supplier:</b> Purchasing -> Order currency	Order Currency	Value mapping used

*Table 3: SAP S/4HANA Business Partner to Sirion Supplier Field Mapping*

**NOTE** – Actual mappings may contain few more environment-specific fields. For determining the exact field names mapped in the API payload, and for addition/removal of any custom mapping logic, refer to the **Mapping Subprocess** in the iFlow.

### 3. SAP CI Configuration

#### 3.1. Configure and deploy iFlow on your SAP Cloud Integration Tenant

##### 3.1.1. Copy Package

Copy the following package from Discover to the Design section on your tenant:

- **Sirion Contract Lifecycle Management Integration with SAP S/4HANA**

**NOTE** – If the integration package is being created for the first time, you will see the "Integration Package Created" message. Otherwise, you will be prompted to either create a new copy of the package or overwrite the existing content. Click **Overwrite**.

##### 3.1.2. Package Artifacts

The packages include the following artifacts:

- **Replicate Business Partner from SAP S4HANA to Supplier in Sirion CLM**  
Enables replication of Business Partner in SAP S/4HANA to Supplier in Sirion CLM
- **Value Mapping Between SAP S4HANA and Sirion CLM**  
Enables mapping of fields from SAP S/4HANA to corresponding values in Sirion CLM and vice-versa

##### 3.1.3. Access Design Mode

In the left navigation bar, select **Design** mode. The package will now be visible in the design area and ready for configuration.

#### 3.2. Security Artifacts Setup

The following Security Artifacts need to be setup on your SAP CI Tenant:

##### 3.2.1. Sirion CLM Credentials

###### 1. Create Security Material

Create a Security Material of type 'OAuth2 Client Credentials' with the Sirion OAuth credentials generated previously ([Section 2.1.1](#)). Provide the following details:

- Name:** <Credential Name>
- Description** <Credential Description>
- Token Service URL:** <OAuth2 Token Endpoint URL>
- Client ID:** <Client ID>
- Client Secret:** <Client Secret>
- Client Authentication:** Select "Send as Body Parameter"
- Scope:** If required by the token service, enable and provide the necessary scope
- Content Type:** Select "application/x-www-form-urlencoded"

###### 2. Set Credential Name in iFlow

After deployment, set the "Sirion OAuth Creds" external parameter in the iFlow to the credentials you just created.

##### 3.2.2. Connectivity with SAP S4HANA

###### 1. Generate Authentication and API Credentials

Create application and generate Authentication and API credentials for S/4HANA

###### 2. Create respective Security Materials

Create Security Material of the required type under the **Monitor** → **Integrations and APIs** →

**Security Material** area. Create credentials of type “**User Credentials**” if using Basic authentication mechanism and provide username/password with other details. If using OAuth2 authentication mechanism, follow the steps in the previous section (**Sirion CLM Credentials**) and use the S/4HANA credentials instead.

### 3. Set Credential Name in iFlow

After deployment, set the External Parameters ‘S/4HANA Auth Creds’ credentials in the iFlow with the name of Security Material created above.

## 3.3. Integration Flow Configuration

### 3.3.1. iFlow: Replicate Business Partner from SAP S4HANA to Supplier in Sirion CLM

#### 3.3.1.1. Configure Externalized Parameters

S. No.	External Parameter	Description
1.	Project Modified From Datetime	Default timestamp used to filter and retrieve projects updated after this value. Typically used for the first integration run or one-time executions. Datetime of the last run stored in variables, if exists, will have precedence over this.
2.	Supplier Hierarchy ID (Sirion)	ID of the Supplier hierarchy under which new Suppliers are to be created.
3.	Send Email	Flag to decide if alert emails need to be sent. Other Email-related parameters are required if value is “Yes”.
4.	S4 Additional API Filter	Define any additional filter to be used in conjunction with the default datetime range filter
5.	CI Tenant URL	URL of the current SAP CI tenant; used to send to Sirion APIs as one of the header parameters

Table 4: External Parameters

#### 3.3.1.2. Value Mappings

Update the following artifact using the Master Data mapping created earlier.

#### Value Mapping Between SAP S4HANA and Sirion CLM

Fields requiring value mapping are as follows:

S. No.	SAP S/4HANA Field Name	Sirion Supplier Field Name
1.	Country/Reg.	Business Partner Country
2.	Region	Business Partner Region
3.	Company Code	Company Code
4.	Reconciliation account	GL Account
5.	Purchasing Organization	Purchasing Organization
6.	Order currency	Order Currency

*Table 5: Supplier Value Mappings*

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