



Sirion Contract Lifecycle Management
(CLM) & SAP Ariba Procurement Integra-
tion - SAP CI Configuration Guide

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Document History

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Contents

1. Introduction	5
1.1. Data Synchronization between SAP Ariba and Sirion CLM	5
1.2. Intended Audience	6
2. Pre-requisites	7
2.1. Sirion CLM Configuration	7
2.2. SAP Ariba Configuration	9
2.3. Master Data Mapping	10
2.4. Field Mappings	10
3. SAP CI Configuration	13
3.1. Configure and Deploy iFlow on your SAP Cloud Integration Tenant	13
3.2. Security Artifacts Setup	13
3.3. Integration Flow Configuration	14

1. Introduction

This document provides a comprehensive guide on the essential configuration steps required for the seamless integration of the buy-side contracting flow between Sirion Contract Lifecycle Management (CLM) and SAP Ariba.

The integration ensures that Contract Draft Requests (CDR) created in Sirion CLM, upon completion of the signature process, are automatically transitioned into Purchase Requisitions (PR) in SAP Ariba. Once the PR progresses through the approval workflow and generates a Purchase Order (PO) in SAP Ariba, a Purchase Order (PO) is subsequently created and managed under the Contracting Operations (CO) module within Sirion CLM, facilitating synchronization across both systems for a unified buy-side and contracting process and enabling end-to-end contract and procurement lifecycle management.

Refer to the below image to understand the integration workflow between Sirion CLM and SAP Ariba:

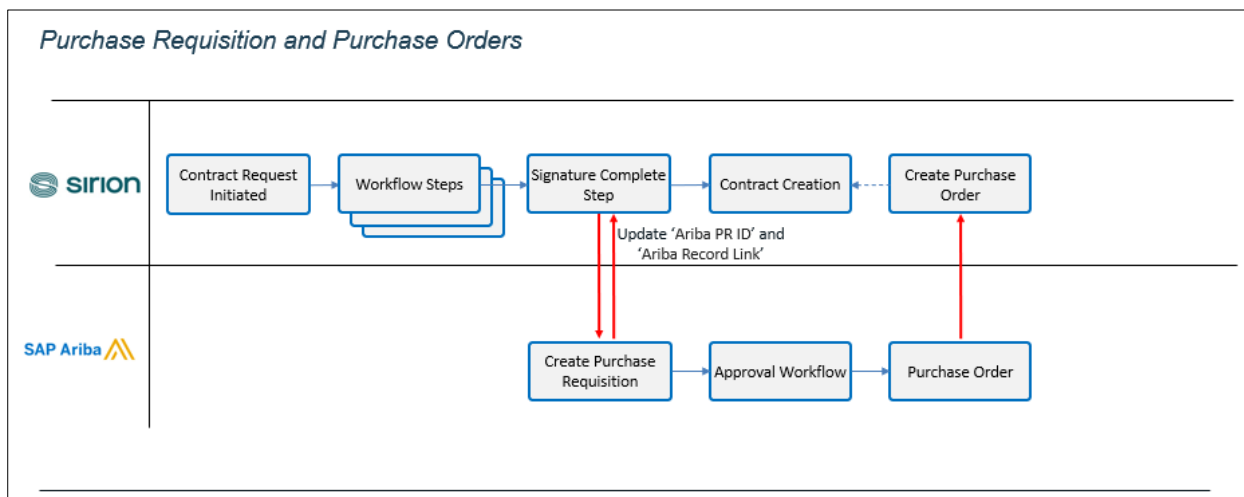


Figure 1: Integration Workflow – Sirion CLM & SAP Ariba

1.1. Data Synchronization between SAP Ariba and Sirion CLM

The integration simplifies and automates key workflows, ensuring efficient contract creation and procurement processing.

Below is a technical view of the data flow between different systems used in the implementation:

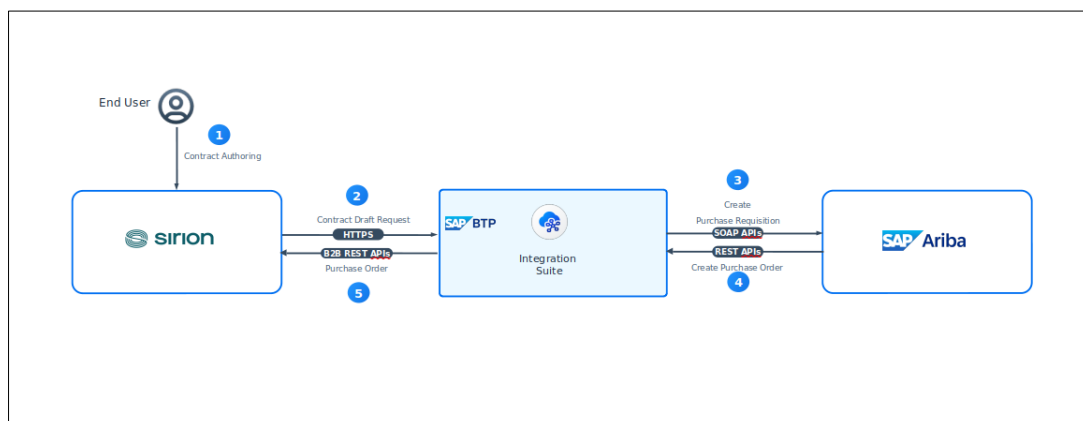


Figure 2: Data Flow

- **CDR** (Contract Draft Request) in Sirion CLM maps to **PR** (Purchase Requisition) in SAP Ariba (Steps 1, 2 and 3).
- Once approved, the PR transitions into a **PO** (Purchase Order) within SAP Ariba and is mapped to Sirion CLM as PO (Purchase Order) under the CO (Contract) module (Steps 4 and 5).
- This ensures end-to-end traceability and alignment between contractual terms and procurement operations.

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 Ariba as listed in subsequent sections.

2.1. Sirion CLM Configuration

2.1.1. Workflow Logic

The Contract Draft Request (CDR) in Sirion CLM transitions into a Purchase Requisition (PR) in SAP Ariba only after the **Signature Complete** workflow is triggered on the Sirion side. This ensures that the CDR has been finalized and approved in accordance with the established business processes before initiating the procurement workflow in SAP Ariba.

Note that a Contract (CO) is automatically generated from the CDR following this step, which is required for the synchronization of PO between SAP Ariba and Sirion CLM. **While the trigger workflow step can be customized, a Contract must exist in Sirion CLM to ensure successful replication of the PO from SAP Ariba.**

2.1.2. API OAuth Credentials

Client administrators can 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.

2.1.3. iFlow: Replicate Sirion CLM Contract Request to SAP Ariba Purchase Requisition

2.1.3.1. Metadata Fields

Below table shows the required metadata fields to be configured for respective entity in Sirion for this iFlow.

- **Contract Draft Request (CDR):**

S. No.	Field Name	Field Type
1	Title	Text
2	Effective Date	Date (YYYY-MM-DD)
3	ID	Text (auto-generated)
4	Requestor	Dropdown

Table 1: Contract Draft Request Metadata Fields

- **Contract Line Items (CLI):**

S. No.	Field Name	Field Type
1	ID	Text (auto-generated)
2	Description	Text
3	Amount	Auto-calculated (Quantity*Price)
4	Quantity	Numeric
5	Supplier Part Id	Text

6	Commodity	Dropdown
7	Start Date	Date
8	Price	Numeric
9	End Date	Date
10	Currency	Dropdown

Table 2: Contract Line Item Metadata Fields

2.1.4. iFlow: Replicate SAP Ariba Purchase Order to Sirion CLM Purchase Order

2.1.4.1. Metadata Fields

Below table shows the required metadata fields to be configured for respective entity in Sirion for this iFlow.

- **Contract (CO):**

S. No.	Field Name	Field Type
1	ID	Text (auto-generated)
2	Effective Date	Date
3	Expiration Date	Date
4	Time Zone	Dropdown
5	Currency	Dropdown
6	Finance Team	Dropdown
7	Contract Manager	Dropdown

Table 3: Sirion – Contract Metadata Fields

- **Purchase Orders (PO):**

S. No.	Field Name	Field Type
1	PO Number	Text
2	Name	Text
3	Start Date	Date
4	End Date	Date
5	PO Total	Numeric
6	Time Zone	Dropdown
7	Currency	Dropdown
8	Finance Team	Dropdown
9	Contract Manager	Dropdown
10	Parent	Text Dropdown (Populate it with the Contract ID)

Table 4: Sirion – Purchase Order Metadata Fields

2.2. SAP Ariba Configuration

2.2.1. iFlow: Replicate Sirion CLM Contract Request to SAP Ariba Purchase Requisition

2.2.1.1. API Setup

a. Requisition Import Pull (SOAP)

Below API needs to be enabled from SAP Ariba Developer Portal, which required authentication method and user credentials set up. This API is used to create PR in SAP Ariba.

<SAP Ariba Instance Base URL>/Buyer/soap/<SAP Realm>/RequisitionImportPull

b. Document Approval (REST)

Below API needs to be enabled from SAP Ariba Developer Portal, which required authentication method and user credentials set up. This API is used to fetch direct hyperlink to the SAP Ariba PR and store it on the CDR in Sirion CLM.

<SAP Ariba Instance Base URL /api/approval/v2/prod/requisitions

2.2.1.2. Metadata Fields

Below table shows the required metadata fields to be configured in SAP Ariba for this iFlow.

- **Purchase Requisition (PR) Header Level:**

S. No.	Field Name	Field Type
1	Deliver To	Text
2	Need-by Date	Date

Table 5: SAP Ariba – PR Header Level Metadata Fields

- **Purchase Requisition (PR) Line-Item Level:**

S. No.	Field Name	Field Type
1	Originating System Reference ID	Text
2	Preparer	Text
3	Requester	Text
4	Commodity	Text
5	Description	Text
6	Original Price	Text
7	Currency	Text
8	Supplier Part Number	Text
9	Quantity	Text
10	No.	Text

Table 6: SAP Ariba – PR Line-Item Level Metadata Fields

2.2.2. iFlow: Replicate SAP Ariba Purchase Order to Sirion CLM Purchase Order

2.2.2.1. API Setup

a. Operational Reporting for Procurement (REST)

Below API needs to be enabled from SAP Ariba Developer Portal, which required authentication method and user credentials set up. This API is used to fetch POs created/updated in a specified date and time range in SAP Ariba.

```
<SAP Ariba Instance Base URL>/api/procurement-reporting-
details/v2/prod/views/DirectOrder_SAP_updatedRange
```

2.2.2.2. Metadata Fields

Below table shows the required metadata fields to be configured in SAP Ariba for this iFlow.

- **Purchase Orders (PO):**

S. No.	Field Name	Field Type
1	Order ID	Text (auto-generated)
2	Total ordered	Numeric (auto-calculated from line items)

Table 7: SAP Ariba – Purchase Order Metadata Fields

2.3. Master Data Mapping

Certain fields require maintaining cross-references between Sirion and their corresponding values in SAP Ariba. 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 below; this will be used while configuring the Value Mapping artifact in the relevant section later in this guide.

Fields requiring value mapping in Contract Draft Request (CDR) are as follows:

S. No.	Sirion CDR Field Name	SAP Ariba Field Name
1	Requestor	Deliver To

Table 8: Contract Draft Request Value Mapping

Fields requiring value mapping in Contract Line Items (CLI) are as follows:

S. No.	Sirion CLI Field Name	SAP Ariba Field Name
1	Requestor	Preparer
2	Requestor	Requester

Table 9: Contract Line Items Value Mapping

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 Ariba metadata configurations.

2.4.1. iFlow: Replicate Sirion CLM Contract Request to SAP Ariba Purchase Requisition

- **Sirion CDR to SAP Ariba PR (Header level):**

S. No.	Sirion CDR Field Name	SAP Ariba Field Name	Comments
1	Requestor	Deliver To	Value mapping used
2	Effective Date	Need-by Date	Calculate using Effective Date

Table 10: Sirion CDR to SAP Ariba PR (Header level)

- **Sirion CLI to SAP Ariba PR (Line-Item level):**

S. No.	Sirion CLI Field Name	SAP Ariba Field Name	Comments
1	ID	Originating System Reference ID	
2	Requestor	Preparer	Value mapping used
3	Requestor	Requester	Value mapping used
4	Commodity Code	Commodity	Characters up to the first <space> or first 8 characters at most.
5	Description	Description	
6	Price	Original Price	
7	Currency	Currency	
8	Supplier Part Id	Supplier Part Number	
9	Quantity	Quantity	
10	Line ID	No.	

Table 11: Sirion CLI to SAP Ariba PR (Line-Item level)

2.4.2. iFlow: Replicate SAP Ariba Purchase Order to Sirion CLM Purchase Order

S. No.	SAP Ariba Field Name	Sirion PO Field Name	Comments
1	Order ID	PO Number	
2	Order ID	Name	
3		Start Date	Fetch from CO
4		End Date	Fetch from CO
5	Total ordered > Amount	PO Total	
6		Contract Manager	Fetch from CO
7		Finance Team	Fetch from CO
8		Time Zone	Fetch from CO
9	Total ordered → Currency	Currency	Fetch from CO
10		Parent	ID of the CO to create PO under (Fetch from CO)

Table 12: SAP Ariba PO to Sirion CLM PO

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, check 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 (CLM) Integration with SAP Ariba Procurement**

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 Sirion CLM Contract Request to SAP Ariba Purchase Requisition**
Replicates Contract Draft Request (CDR) and Contract Line Items (CLI) from Sirion CLM to Purchase Requisition (PR) and Line Items in SAP Ariba.
- **Replicate SAP Ariba Purchase Order to Sirion CLM Purchase Order**
Replicates Purchase Order (PO) from SAP Ariba to Purchase Order (PO) in Sirion CLM.
- **Field Value Mappings between Sirion CLM and SAP Ariba**
Field values to be mapped from Sirion CLM to SAP Ariba 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

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 'User Credentials' with the Sirion OAuth credentials generated previously ([Section 2.1.1](#)).

Provide the below details:

- a. **Name:** <Credential Name>
- b. **Description** <Credential Description>
- c. **Type:** User Credentials
- d. **User:** <Client ID>
- e. **Password:** <Client Secret>

2. Set Credential Name in iFlow

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

3.2.2. SAP Ariba Credentials

1. Generate Authentication and API Keys

Create application and generate separate Authentication Credentials and API keys for Purchase Requisition (PR) and Purchase Order (PO) Projects from SAP Ariba Developer Portal.

2. Create respective Security Materials

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

3. Set Credential Name in iFlow

After deployment, set the External Parameters meant to point to the respective system's authentication credentials in the iFlow with the name of Security Material created above.

3.3. Integration Flow Configuration

3.3.1. iFlow: Replicate Sirion CLM Contract Request to SAP Ariba Purchase Requisition

3.3.1.1. Configure Externalized Parameters

S. No.	External Parameter	Description
1.	SAP PR Base URL	Tenant-specific SOAP API hostname of SAP Ariba to create PR.
2.	SAP Ariba SOAP Basic Creds	Name of stored credentials in SAP CI used to consume SAP Ariba SOAP API.
3.	Sirion Base URL	Sirion tenant hostname.
4.	Sirion OAuth Credentials	Name of stored credentials in SAP CI used to consume Sirion APIs.
5.	Ariba AIR Key	Application Interface Key used to consume SAP Ariba PR SOAP API.
6.	CPI URI	SAP Cloud Integration (CI) Path to iFlow. Used to register Webhook in Sirion.
7.	Authorization	Type of authorization used when receiving request.
8.	User Role	To be provided if using User Role based authentication.
9.	CSRF Protected	Check Box; Enables CSRF protection if required.
10.	Application-Interface-Key	Alias of the Secure Parameter in SAP CI used while authenticating with SAP Ariba Project API.
11.	Send Emails	Flag to decide if alert emails need to be sent (true/false).
12.	From Email ID	Used when sending alert email.

13.	To Email ID	Used when sending alert email.
14.	Email CC	Used when sending alert email.
15.	Enable Payload Logging	To determine if payload used to create PR is to be logged (true/false).
16.	SIRION TASK NAME	Sirion CDR Workflow step at which PR is to be created in SAP Ariba.
17.	ARIBA PR Fetch URL	Tenant-specific REST API hostname of SAP Ariba; used to fetch PR URL.
18.	SAP Ariba PR OAuth Creds	Name of stored credentials in SAP CI used to consume SAP Ariba PR REST API.
19.	SAP REALM	Query Parameter used while consuming SAP Ariba REST APIs.
20.	Line Item Template ID (Sirion)	ID of Contract Line Item template loaded in Sirion.
21.	Default Requestor Name	Name to be used while mapping if 'Requestor' field is blank in Sirion .

Table 13: Externalized Parameters

3.3.1.2. Value Mapping

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

Field Value Mappings between Sirion CLM and SAP Ariba

Fields requiring value mapping in Contract Draft Request (CDR) are as follows:

S. No.	Sirion CDR Field Name	SAP Ariba Field Name
1.	Requestor	Deliver To

Table 14: Contract Draft Request (CDR) Value Mapping

Fields requiring value mapping in Contract Line Items (CLI) are as follows:

S. No.	Sirion CLI Field Name	SAP Ariba Field Name
1.	Requestor	Preparer
2.	Requestor	Requester

Table 15: Contract Line Items (CLI) Value Mapping

3.3.2. iFlow: Replicate SAP Ariba Purchase Order to Sirion CLM Purchase Order

3.3.2.1. Configure Externalized Parameters

S. No.	External Parameter	Description
1.	From Date Time	Default Datetime to search SAP Ariba POs from if running iFlow for the first time or if previous run datetime is not found.
2.	Scheduler	Used to determine the schedule to run iFlow

3.	SAP REALM	Query Parameter used while consuming SAP Ariba REST APIs.
4.	SAP Ariba PO OAuth Creds	Name of stored credentials in SAP CI used to consume SAP Ariba PO REST API.
5.	SAP ARIBA BASE URL	Tenant-specific REST API hostname of SAP Ariba.
6.	SIRION BASE URL	Sirion tenant hostname.
7.	Sirion OAuth Credentials	Name of stored credentials in SAP CI used to consume Sirion APIs.
8.	SEND EMAIL	Flag to decide if alert emails need to be sent (Yes/No).
9.	FROM EMAIL	Used when sending alert email.
10.	TO EMAIL	Used when sending alert email.
11.	SAP APIKEY	Application Interface Key used to consume SAP Ariba PO REST API.

Table 16: Externalized Parameters

Figures

Figure 1: Integration Workflow – Sirion CLM & SAP Ariba	5
Figure 2: Data Flow	5

Tables

Table 1: Contract Draft Request Metadata Fields	7
Table 2: Contract Line Item Metadata Fields.....	8
Table 3: Sirion – Contract Metadata Fields.....	8
Table 4: Sirion – Purchase Order Metadata Fields.....	8
Table 5: SAP Ariba – PR Header Level Metadata Fields	9
Table 6: SAP Ariba – PR Line-Item Level Metadata Fields	9
Table 7: SAP Ariba – Purchase Order Metadata Fields	10
Table 8: Contract Draft Request Value Mapping	10
Table 9: Contract Line Items Value Mapping.....	10
Table 10: Sirion CDR to SAP Ariba PR (Header level)	11
Table 11: Sirion CLI to SAP Ariba PR (Line-Item level)	11
Table 12: SAP Ariba PO to Sirion CLM PO	12
Table 13: Externalized Parameters	15
Table 14: Contract Draft Request (CDR) Value Mapping	15
Table 15: Contract Line Items (CLI) Value Mapping.....	15
Table 16: Externalized Parameters	16

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