



Sirion
Product Documentation

Purpose and Intended Use

This document is provided for informational purposes only. It is intended to support authorized users in understanding, configuring, and operating the Sirion platform. It does not represent a contractual commitment or legal agreement.

Confidentiality

This material contains proprietary information belonging to Sirion. It is intended solely for internal use by authorized customers and designated project stakeholders. Redistribution, copying, or disclosure to unauthorized individuals or third parties is strictly prohibited without prior written consent from Sirion.

Accuracy and Disclaimer

Sirion makes reasonable efforts to ensure the accuracy, completeness, and reliability of the information contained in this document. However, the platform continues to evolve, and the content may be updated or modified at any time without notice. Sirion is not liable for any errors, omissions, or consequences arising from the use or reliance on this documentation.

Trademarks

All trademarks, product names, company names, and logos mentioned in this document are the property of their respective owners.

Support and Assistance

For questions, clarifications, or additional assistance regarding the information in this document, please contact Sirion Support or your assigned customer success representative.

Table of contents

Replicate Contract Request from Sirion CLM to SAP Ariba

Overview	5
Sirion CLM Contract Request to SAP Ariba Contract Workspace	5
Data Synchronization between Sirion CLM and SAP Ariba	5
Terminology	6
Intended Audience	6

Pre-requisites

Pre-requisites	8
Trigger Conditions	9
Sirion CLM Configuration	10
API OAuth 2.0 Credentials	10
iFlow: Replicate Contract Request from Sirion CLM to SAP Ariba	10
SAP Ariba Configuration	11
iFlow: Replicate Contract Request from Sirion CLM to SAP Ariba	11
API Setup	11
Metadata Fields	11
Field Mappings	13
iFlow: Replicate Contract Request from Sirion CLM to SAP Ariba	13

SAP CI Configuration

Integration Model	15
Integration Model	15
Components Overview	15
Configure and Deploy iFlow on your SAP Cloud Integration Tenant	16
Security Artifacts Setup	17
Sirion CLM Credentials	17
Connectivity with SAP Ariba	17
Integration Flow Configuration	19
Importing the Accelerator Package	19
Configuring iFlow Parameters	19

Replicate Contract Changes from Sirion CLM to SAP Ariba

Overview	21
----------------	----

Sirion CLM Contract to SAP Ariba Contract Workspace	21
Data Synchronization between Sirion CLM and SAP Ariba	21
Intended Audience	22
Terminology	22

Pre-requisites

Pre-requisites	24
Trigger Conditions	25
Sirion CLM Configuration	26
API OAuth 2.0 Credentials	26
iFlow: Replicate Contract Changes from Sirion CLM to SAP Ariba	26
SAP Ariba Configuration	27
iFlow: Replicate Contract Changes from Sirion CLM to SAP Ariba	27
API Setup	27
Metadata Fields	27
Field Mappings	29
iFlow: Replicate Contract Changes from Sirion CLM to SAP Ariba	29

SAP CI Configuration

Integration Model	31
Integration Model	31
Components Overview	31
Configure and Deploy iFlow on your SAP Cloud Integration Tenant	32
Security Artifacts Setup	33
Sirion CLM Credentials	33
Connectivity with SAP Ariba	33
Integration Flow Configuration	35
Importing the Accelerator Package	35
Configuring iFlow Parameters	35

Overview

This document provides a comprehensive guide to the key configuration steps required for seamless integration between Sirion Contract Lifecycle Management (CLM) and SAP Ariba Contract Workspace for replicating Contract Requests.

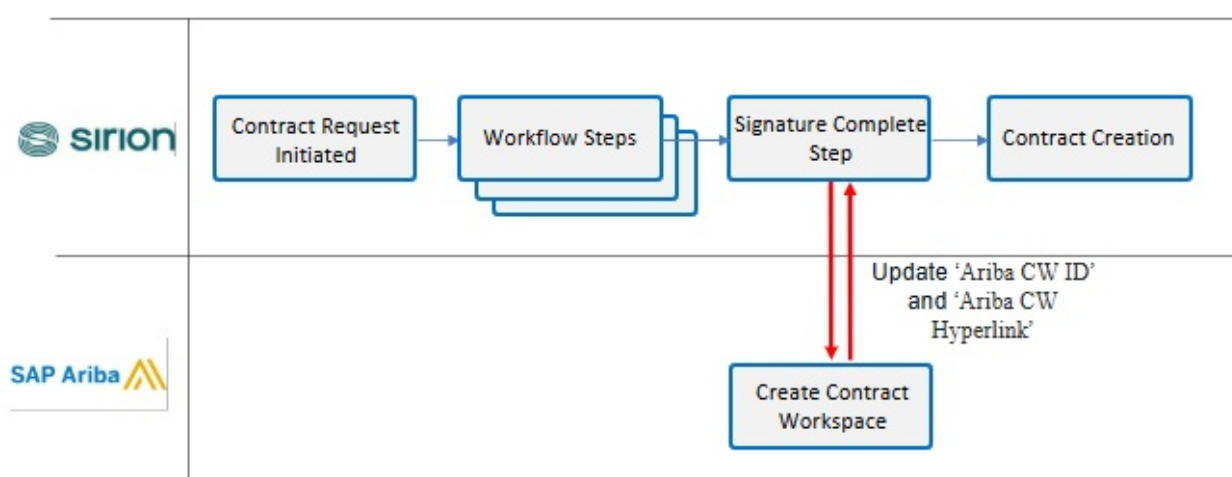
Sirion CLM Contract Request to SAP Ariba Contract Workspace

This integration ensures that Contract Requests created or updated in Sirion CLM are automatically replicated to SAP Ariba as Contract Workspaces (CW).

When a Contract Request (CDR) in Sirion CLM reaches a defined workflow stage, the integration triggers the creation or update of a corresponding Contract Workspace in SAP Ariba. This synchronization ensures that contract request data—including contract metadata, counterparty details, contract line items, and associated documents—remains consistent across both platforms.

The integration supports event-based and asynchronous processing, enabling scalable and reliable replication of Contract Requests without impacting upstream workflows in Sirion CLM.

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



Data Synchronization between Sirion CLM and SAP Ariba

A seamless exchange of contract request data ensures that Sirion CLM and SAP Ariba remain consistently aligned throughout the contract request lifecycle.

The integration synchronizes:

- Contract Request header information
- Counterparty and reference data
- Contract Line Items (CLI), where applicable
- Contract-related documents and attachments

This unified data flow ensures traceability, data accuracy, and continuity between contract authoring and downstream procurement processes.

Terminology

S. No.	Term	Description
1.	CI (SAP Cloud Integration)	Middleware facilitating integration between Sirion and SAP Ariba
2.	iFlow	Integration Flow – a predefined process within CI that governs message routing
3.	JMS	Java Message Service – used for asynchronous queuing of webhook data
4.	Queue	Message storage point holding webhook payloads for processing
5.	Listener	Component in CI that consumes messages from a JMS queue
6.	Adapter	Interface connector defining sender/receiver communication protocols
7.	Accelerator	The pre-built integration package provided via SAP Business Hub

Intended Audience

This document is intended for the following teams:

- Integration Developers
- Business Users
- Product Management

Pre-requisites

Before configuring the integration, ensure that:

- The **SAP Ariba Accelerator** package has been downloaded and imported into CI.
- The CI tenant is active with valid credentials and required user roles.
- Connectivity between CI, Sirion, and SAP Ariba is established and verified.
- Appropriate **certificates, OAuth credentials, or basic authentication tokens** are available for both systems.
- The **Sirion webhook endpoint** is known and reachable.

Trigger Conditions

These trigger conditions define when Sirion CLM automatically sends contract events or updates to SAP Ariba.

1. **Replicate Contract Request from Sirion CLM to SAP Ariba**

Triggers when a contract request is signed in Sirion CLM and a webhook is received for the "Signature Complete" step.

Sirion CLM Configuration

API OAuth 2.0 Credentials

Clients need to authenticate via OAuth 2.0 credentials which they can receive by respective customer representatives.

iFlow: Replicate Contract Request from Sirion CLM to SAP Ariba

Enables replication of signed Contract Request (CDR) and associated contract documents in Sirion CLM to Contract Workspace (CW) in SAP Ariba

- **Contract Request (CDR)**

S. No.	Sirion CDR Field Name	Field Type
1.	ID	Text (auto-generated)
2.	Title	Text
3.	Counterparty	Drop Down
4.	Commodity	Drop Down
5.	Agreement Type	Drop Down
6.	Currency	Drop Down
7.	Effective Date	Date (YYYY-MM-DD)
8.	Expiration Date	Date (YYYY-MM-DD)
9.	TCV	Number

SAP Ariba Configuration

iFlow: Replicate Contract Request from Sirion CLM to SAP Ariba

API Setup

1. Contract Workspaces (REST)

The following APIs need to be enabled from the SAP Ariba Developer Portal, with the required authentication method and user credentials configured.

- a. These APIs are being used to create/update Contract Workspaces in SAP Ariba

```
<SAP Ariba Instance Base URL>/api/modify-contract-workspaces/v1/prod/contractWorkspaces
```

2. Project Document (REST)

The following APIs need to be enabled from the SAP Ariba Developer Portal, with the required authentication method and user credentials configured.

- a. These APIs are being used to upload Documents to a Project in SAP Ariba

```
<SAP Ariba Instance Base URL>/api/create-project-document/v1/prod/projectDocuments/${exchangeProperty.aribaCwid}
```

Metadata Fields

- Contract Workspace (Header) Level

S. No.	Name	Type
1.	Contract ID	Text (auto-generated)
2.	Supplier	Text
3.	Hierarchical Type	Text
4.	Title	Text
5.	Effective Date	Date
6.	Expiration Date	Date
7.	Commodity	Text
8.	Contract Amount	Number
9.	Currency	Text
10.	Template ID	Text

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.

iFlow: Replicate Contract Request from Sirion CLM to SAP Ariba

- **Sirion CDR (Header Level) to SAP Ariba Contract Workspace**

S. No.	Sirion CDR Field Name	SAP Ariba Field Name	Comments
1.	Title	Title	
2.	Counterparty	Supplier	
3.	Commodity	Commodity	
4.	Agreement Type	Hierarchical Type	
5.	Currency	Currency	
6.	Effective Date	Effective Date	
7.	Expiration Date	Expiration Date	
8.	TCV	Contract Amount	
9.	-	Template ID	Default value used

- **SAP Ariba Contract Workspace to Sirion CDR (Header Level)**

S. No.	SAP Ariba Field Name	Sirion CDR Field Name	Comments
1.	Contract ID	Ariba CW ID	
2.	Contract ID	Ariba Sourcing Workspace	Hyperlink to SAP Ariba Workspace/Project
3.	-	Integration Sync Status	Status of integration run (Success/Failure)
4.	-	Integration Status Message	Detailed status message of the integration run

Integration Model

Integration Model

The post-installation configuration in SAP CI supports a **decoupled event-driven model**.

Sirion pushes webhook payloads to SAP CI, which first stores them in a JMS queue.

A dedicated listener then processes queued messages asynchronously to invoke SAP Ariba APIs.

Flow Summary:

1. **Sirion ► CI (Sender Adapter)** – Webhook posts CDR event data.
2. **CI JMS Queue** – Temporarily stores incoming messages for reliability.
3. **CI ► SAP Ariba (Receiver Adapter)** – Processes each queued message and creates/updates the CW in Ariba.

This design ensures scalability, error recovery, and minimal latency for Sirion webhook responses.

Components Overview

S. No.	Component	Function
1.	Sender Adapter	Receives webhook messages from Sirion
2.	Receiver Adapter	Sends processed payloads to SAP Ariba APIs
3.	JMS Queue	Acts as message buffer for asynchronous handling
4.	JMS Listener	Picks up messages from the queue for processing
5.	Integration Flow (iFlow)	Defines message transformations, mapping, and routing logic
6.	Configuration Parameters	Hold tenant-specific URLs, authentication details, and queue references

Configure and Deploy iFlow on your SAP Cloud Integration Tenant

Copy Package

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

- **Sirion Contract Lifecycle Management (CLM) Integration with SAP Ariba Sourcing**

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**.

Package Artifacts

The packages include the following artifacts:

- **Replicate Contract Request from Sirion CLM to SAP Ariba**

Enables replication of signed Contract Request (CDR) and associated contract documents in Sirion CLM to Contract Workspace (CW) in SAP Ariba

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.

Security Artifacts Setup

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

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 below details:

- a. **Name:** <Credential Name>
- b. **Description** <Credential Description>
- c. **Token Service URL:** <OAuth2 Token Endpoint URL>
- d. **Client ID:** <Client ID>
- e. **Client Secret:** <Client Secret>
- f. **Client Authentication:** Select 'Send as Body Parameter'
- g. **Scope:** If required by the token service, enable and provide the necessary scope
- h. **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.

Connectivity with SAP Ariba

1. Generate Authentication and API Keys

Create an application and generate Authentication and API keys for Sourcing Project and Event Management 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. If using OAuth2 authentication mechanism, follow the steps in the previous section (**Sirion CLM Credentials**) and use the Ariba credentials instead.

3. Set Credential Name in iFlow

After deployment, set the External Parameters 'Ariba Project OAuth Creds' and 'Ariba Event OAuth Creds' credentials in the iFlow with the name of Security Material created above.

Integration Flow Configuration

Importing the Accelerator Package

1. Log in to **SAP CI Web UI**.
2. Navigate to **Discover** ► **Packages**.
3. Search for *Sirion – SAP Ariba Integration Accelerator*.
4. Click **Copy** or **Download** to import the package into your tenant.
5. Once imported, navigate to **Design** ► **Artifacts** ► **Integration Flows** to verify available iFlows.

Configuring iFlow Parameters

1. Navigate to **Design** ► **Integration Flows** ► **Sirion_to_SAPArriba**.
2. Open the **Configure** tab.
3. Update the following parameters as per your environment:
 - **iFlow: Replicate Contract Request from Sirion CLM to SAP Ariba**
 - Configure Externalized Parameters

S. No.	External Parameter	Description
1.	Ariba CW API Key	Alias of the Secure Parameter in SAP CI used while authenticating with SAP Ariba COntract Workspaces API.
2.	Send Email	Flag to decide if alert emails need to be sent. Other Email-related parameters are required if value is “Yes”.
3.	Ariba CW Template ID	ID of the Contract Workspace template to be used in Ariba.
4.	Sirion Entity Identifier	Identifier for the Sirion Entity used to integrate with Ariba CW. This can be changed to ‘contracts’ to point to Sirion’s Contract APIs.

4. Save the configuration.
5. Deploy the iFlow.

Overview

This document provides a comprehensive guide to the key configuration steps required for seamless integration between Sirion Contract Lifecycle Management (CLM) and SAP Ariba Contract Workspace.

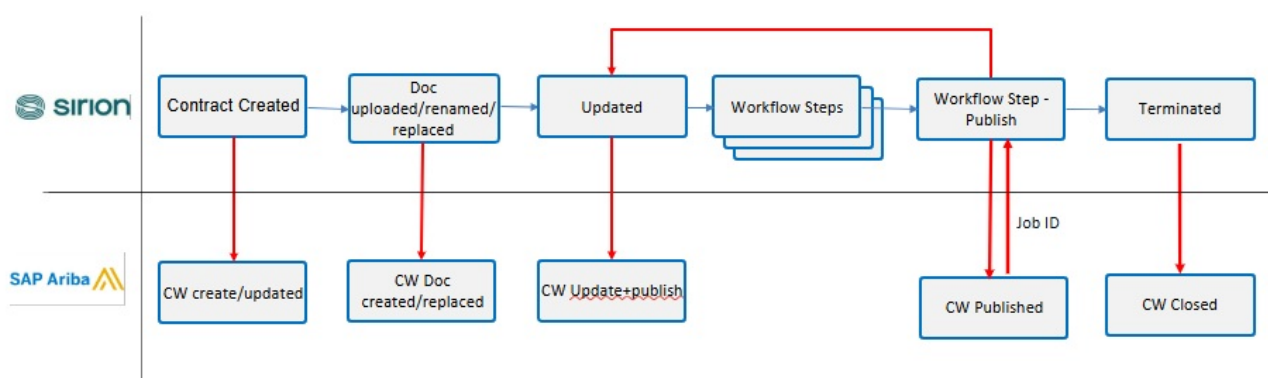
Sirion CLM Contract to SAP Ariba Contract Workspace

This integration ensures that contracts created or updated in Sirion CLM are automatically replicated to SAP Ariba as Contract Workspaces (CW).

When a Contract Request (CDR) reaches a defined workflow stage or when a Contract (CO) is created in Sirion CLM, the integration triggers the creation or update of a corresponding Contract Workspace in SAP Ariba. This synchronization ensures that contract metadata, contract line items, documents, and lifecycle status remain consistent across both platforms.

The integration supports event-driven and asynchronous processing, enabling reliable and scalable contract replication while ensuring accurate contract information is available in SAP Ariba for downstream procurement processes.

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



Data Synchronization between Sirion CLM and SAP Ariba

A seamless exchange of contract data ensures that Sirion CLM and SAP Ariba remain aligned throughout the contract lifecycle.

The integration synchronizes:

- Contract header information
- Contract Line Items (CLI)
- Contract documents and attachments
- Contract lifecycle and workflow status

This unified data flow ensures complete traceability and consistency between authoring and execution systems.

Intended Audience

This document is intended for the following teams:

- Integration Developers
- Business Users
- Product Management

Terminology

S. No.	Term	Description
1.	CI (SAP Cloud Integration)	Middleware facilitating integration between Sirion and SAP Ariba
2.	iFlow	Integration Flow – a predefined process within CI that governs message routing
3.	JMS	Java Message Service – used for asynchronous queuing of webhook data
4.	Queue	Message storage point holding webhook payloads for processing
5.	Listener	Component in CI that consumes messages from a JMS queue
6.	Adapter	Interface connector defining sender/receiver communication protocols
7.	Accelerator	The pre-built integration package provided via SAP Business Hub

Pre-requisites

Before configuring the integration, ensure that:

- The **SAP Ariba Accelerator** package has been downloaded and imported into CI.
- The CI tenant is active with valid credentials and required user roles.
- Connectivity between CI, Sirion, and SAP Ariba is established and verified.
- Appropriate **certificates, OAuth credentials, or basic authentication tokens** are available for both systems.
- The **Sirion webhook endpoint** is known and reachable.

Trigger Conditions

These trigger conditions define when Sirion CLM automatically sends contract events or updates to SAP Ariba.

1. **Replicate Contract Changes from Sirion CLM to SAP Ariba**

Triggers when a contract is created/updated or a workflow action is performed. It is also triggered if a document create/rename/replace occurs.

Sirion CLM Configuration

API OAuth 2.0 Credentials

Clients need to authenticate via OAuth 2.0 credentials which they can receive by respective customer representatives.

iFlow: Replicate Contract Changes from Sirion CLM to SAP Ariba

Enables replication of metadata and workflow changes on Contract (CO) and associated contract documents in Sirion CLM to Contract Workspace (CW) in SAP Ariba

- **Contract (CO)**

S. No.	Sirion CDR Field Name	Field Type
1.	ID	Text (auto-generated)
2.	Title	Text
3.	Counterparty	Drop Down
4.	Commodity	Drop Down
5.	Agreement Type	Drop Down
6.	Currency	Drop Down
7.	Effective Date	Date (YYYY-MM-DD)
8.	Expiration Date	Date (YYYY-MM-DD)
9.	TCV	Number

SAP Ariba Configuration

IFlow: Replicate Contract Changes from Sirion CLM to SAP Ariba

API Setup

1. Contract Workspaces (REST)

The following APIs need to be enabled from the SAP Ariba Developer Portal, with the required authentication method and user credentials configured.

- a. These APIs are being used to fetch/create/update Contract Workspaces in SAP Ariba

```
<SAP Ariba Instance Base URL>/api/modify-contract-workspaces/v1/prod/contractWorkspaces
```

2. Project Document (REST)

The following APIs need to be enabled from the SAP Ariba Developer Portal, with the required authentication method and user credentials configured.

- a. These APIs are being used to list/replace/upload Documents to a Project in SAP Ariba

```
<SAP Ariba Instance Base URL>/api/create-project-document/v1/prod/projectDocuments/${exchangeProperty.aribaCwid}
```

3. State Change (REST)

The following APIs need to be enabled from the SAP Ariba Developer Portal, with the required authentication method and user credentials configured.

- a. These APIs are being used to publish Contract Workspaces in SAP Ariba

```
<SAP Ariba Instance Base URL>/api/state-change-contract-workspaces/v1/prod/contractWorkspaces/${exchangeProperty.aribaCwid}/state
```

Metadata Fields

- Contract Workspace (Header) Level

S. No.	Name	Type
1.	Contract ID	Text (auto-generated)
2.	Supplier	Text
3.	Hierarchical Type	Text
4.	Title	Text
5.	Effective Date	Date
6.	Expiration Date	Date
7.	Commodity	Text
8.	Contract Amount	Number
9.	Currency	Text
10.	Template ID	Text

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.

iFlow: Replicate Contract Changes from Sirion CLM to SAP Ariba

- **Sirion CO (Header Level) to SAP Ariba Contract Workspace**

S. No.	Sirion CDR Field Name	SAP Ariba Field Name	Comments
1.	Title	Title	
2.	Counterparty	Supplier	
3.	Commodity	Commodity	
4.	Agreement Type	Hierarchical Type	
5.	Currency	Currency	
6.	Effective Date	Effective Date	
7.	Expiration Date	Expiration Date	
8.	TCV	Contract Amount	
9.	-	Template ID	Default value used

- **SAP Ariba Contract Workspace to Sirion CO (Header Level)**

S. No.	SAP Ariba Field Name	Sirion CDR Field Name	Comments
1.	Contract ID	Ariba CW ID	
2.	Contract ID	Ariba Sourcing Workspace	Hyperlink to SAP Ariba Workspace/Project
3.	-	Integration Sync Status	Status of integration run (Success/Failure)
4.	-	Integration Status Message	Detailed status message of the integration run

Integration Model

Integration Model

The post-installation configuration in SAP CI supports a **decoupled event-driven model**.

Sirion pushes webhook payloads to SAP CI, which first stores them in a JMS queue.

A dedicated listener then processes queued messages asynchronously to invoke SAP Ariba APIs.

Flow Summary:

1. **Sirion ► CI (Sender Adapter)** – Webhook posts CDR event data.
2. **CI JMS Queue** – Temporarily stores incoming messages for reliability.
3. **CI ► SAP Ariba (Receiver Adapter)** – Processes each queued message and creates/updates the CW in Ariba.

This design ensures scalability, error recovery, and minimal latency for Sirion webhook responses.

Components Overview

S. No.	Component	Function
1.	Sender Adapter	Receives webhook messages from Sirion
2.	Receiver Adapter	Sends processed payloads to SAP Ariba APIs
3.	JMS Queue	Acts as message buffer for asynchronous handling
4.	JMS Listener	Picks up messages from the queue for processing
5.	Integration Flow (iFlow)	Defines message transformations, mapping, and routing logic
6.	Configuration Parameters	Hold tenant-specific URLs, authentication details, and queue references

Configure and Deploy iFlow on your SAP Cloud Integration Tenant

Copy Package

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

- **Sirion Contract Lifecycle Management (CLM) Integration with SAP Ariba Sourcing**

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**.

Package Artifacts

The packages include the following artifacts:

- **Replicate Contract Changes from Sirion CLM to SAP Ariba**

Enables replication of metadata and workflow changes on Contract (CO) and associated contract documents in Sirion CLM to Contract Workspace (CW) in SAP Ariba

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.

Security Artifacts Setup

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

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 below details:

- a. **Name:** <Credential Name>
- b. **Description** <Credential Description>
- c. **Token Service URL:** <OAuth2 Token Endpoint URL>
- d. **Client ID:** <Client ID>
- e. **Client Secret:** <Client Secret>
- f. **Client Authentication:** Select 'Send as Body Parameter'
- g. **Scope:** If required by the token service, enable and provide the necessary scope
- h. **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.

Connectivity with SAP Ariba

1. Generate Authentication and API Keys

Create an application and generate Authentication and API keys for Sourcing Project and Event Management 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. If using OAuth2 authentication mechanism, follow the steps in the previous section (**Sirion CLM Credentials**) and use the Ariba credentials instead.

3. Set Credential Name in iFlow

After deployment, set the External Parameters 'Ariba Project OAuth Creds' and 'Ariba Event OAuth Creds' credentials in the iFlow with the name of Security Material created above.

Integration Flow Configuration

Importing the Accelerator Package

1. Log in to SAP CI Web UI.
2. Navigate to **Discover** ► **Packages**.
3. Search for *Sirion – SAP Ariba Integration Accelerator*.
4. Click **Copy** or **Download** to import the package into your tenant.
5. Once imported, navigate to **Design** ► **Artifacts** ► **Integration Flows** to verify available iFlows.

Configuring iFlow Parameters

1. Navigate to **Design** ► **Integration Flows** ► **Sirion_to_SAPArriba**.
2. Open the **Configure** tab.
3. Update the following parameters as per your environment:
 - **iFlow: Replicate Contract Changes from Sirion CLM to SAP Ariba**
 - Configure Externalized Parameters

S. No.	External Parameter	Description
1.	Ariba CW API Key	Alias of the Secure Parameter in SAP CI used while authenticating with SAP Ariba COContract Workspaces API.
2.	Send Email	Flag to decide if alert emails need to be sent. Other Email-related parameters are required if value is “Yes”.
3.	Ariba CW Template ID	ID of the Contract Workspace template to be used in Ariba.
4.	Sirion Doc Status to Upload	Status of documents in Sirion CO that need to be replicated in Ariba CW
5.	Ariba Project Document API Key	Alias of the Secure Parameter in SAP CI used while authenticating with SAP Ariba APIs used used for retrieving/uploading documents on Project.
6.	Ariba CW State Change API Key	Alias of the Secure Parameter in SAP CI used while authenticating with SAP Ariba APIs used for changing CW state.

4. Save the configuration.

5. Deploy the iFlow.