



PUBLIC

Document Version: 2511_SP 0024 – 2025-11

SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Overview Guide

For buyers

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Change in the Names of SAP Ariba Cloud Integration Gateway and Ariba Network

SAP has renamed SAP Ariba Cloud Integration Gateway and Ariba Network to SAP Integration Suite, managed gateway for spend management and SAP Business Network and SAP Business Network respectively. This document uses the revised names. This change is effective from the SAP Ariba 2302 release and it does not affect the functionality of SAP Ariba Cloud Integration Gateway and Ariba Network.

The UI components of SPRO nodes contain the short name, **Managed Gateway for Spend&Network**. The content on the Performance Assistant pages associated with the SPRO nodes displays the name as SAP Integration Suite, managed gateway for spend management and SAP Business Network. Also, the name Ariba Network is renamed as SAP Business Network throughout the SPRO menu components.

Exceptions

- The product name Ariba Network adapter for SAP NetWeaver is not updated in this document.
- The names of the integration scenarios that contain the name Ariba Network are not updated in this document.
- The technical names of the ABAP objects in the SPRO nodes associated with the SAP Integration Suite, managed gateway for spend management and SAP Business Network, addons for SAP ERP and SAP S/4HANA and SAP Business Network are not renamed.

SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Overview Guide

This guide is for SAP Ariba administrators or business users responsible for setting up SAP ERP and SAP S/4HANA with SAP Ariba solutions and SAP Integration Suite, managed gateway for spend management and SAP Business Network.

SAP ERP and SAP S/4HANA buyers can integrate SAP Ariba solutions with SAP Integration Suite, managed gateway for spend management and SAP Business Network and use the functionalities integrated across SAP Ariba solutions. Buyers can find information about the system requirements, data flows, and prerequisites that they require before sending master data and transaction data through the SAP Integration Suite, managed gateway for spend management and SAP Business Network.

⚠ Caution

SAP Integration Suite, managed gateway for spend management and SAP Business Network is not audited for compliance with the Payment Card Industry Standard (PCI). You should not submit Purchasing Card (PCard) data in transactions sent to the SAP Integration Suite, managed gateway for spend management and SAP Business Network. SAP Ariba may reject transactions that include data in the field designated for PCard use.

SAP Ariba recommends that you read this guide first and then the following guides to know more about the supported functionalities.

This guide applies to:

- SAP Ariba Buying
- SAP Ariba Buying and Invoicing
- SAP Ariba Invoice Management
- SAP Ariba Catalog
- SAP Business Network Commerce Automation
- SAP Ariba Contracts
- SAP Ariba Collaborative Sourcing
- SAP Ariba Discount Management
- SAP Ariba Invoice Management
- SAP Business Network
- SAP Ariba Payables
- SAP Ariba Spot Buy Catalog
- SAP Ariba strategic sourcing solutions
- SAP Ariba Sourcing
- SAP Ariba Supplier Information and Performance Management
- SAP Ariba Supplier Lifecycle and Performance
- SAP Ariba Supplier Risk

Related Guides

[SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#)

[SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#)

[SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Migration Guide](#)

Introduction

You've decided to integrate your SAP ERP or SAP S/4HANA system with SAP Business Network and SAP Ariba solutions to efficiently manage supplier interactions across the spend management lifecycle. The SAP Integration Suite, managed gateway for spend management and SAP Business Network simplifies and accelerates the integration.

This document is intended for business users and administrators and provides an overview of the supported functionalities. In addition, it includes information about software components, access rights, and system requirements on SAP ERP and SAP S/4HANA side before you can begin the integration process.

Please note that this guide does not provide process descriptions on how to carry out the integration. Refer to the following documents for information about:

- Installation and configuration of SAP ERP and SAP S/4HANA add-on
- Integration steps on the SAP Integration Suite, managed gateway for spend management and SAP Business Network
- Configuration requirements on the SAP Business Network and SAP Ariba solutions.
- Migration from SAP Ariba cloud integration adapter to the SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on for SAP ERP or SAP S/4HANA

SAP Ariba recommends that you read this guide first and then the following guides to know more about the supported functionalities. Ensure that you also read the prerequisites that you require before sending master data and transaction data through the SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Document	Location
SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide Contains all the details you need for installation of SAP ERP and SAP S/4HANA add-on and for setting up SAP Integration Suite, managed gateway for spend management and SAP Business Network.	SAP Help Portal
SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide Contains all the details you need for setting up the SAP Business Network integration in your SAP ERP or SAP S/4HANA system.	SAP Help Portal

Document	Location
SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Migration Guide Contains all the details you need for migrating master data and configurations from SAP Ariba cloud integration adapter to SAP Integration Suite, managed gateway for spend management and SAP Business Network for SAP ERP or SAP S/4HANA.	SAP Help Portal

Overview of the SAP Integration Suite, managed gateway for spend management and SAP Business Network Solution for Buyers

SAP Integration Suite, managed gateway for spend management and SAP Business Network provides a simple and efficient Integration-as-a-Service (IaaS) solution.

SAP Integration Suite, managed gateway for spend management and SAP Business Network facilitates the integration of buyers' SAP ERP or SAP S/4HANA systems with SAP Business Network and SAP Ariba solutions.

By leveraging the SAP Cloud Platform integration, SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- Supports the configuration on the basis of the core ERP capabilities
- Supports certificate-based or basic user name and password based authentication for connectivity
- Offers tools such as:
 - Document Validator tool to validate documents for schema, content and transformation
 - Supplier Reporting to view the integration status of their suppliers
 - Transaction Tracker to search and track transaction status
 - Test Central to help users perform self-test before moving to a production environment

In addition, SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- Simplifies integration by using a guidance-based setup
- Reduces the integration deployment time
- Provides an integrated test framework to verify various scenarios configured in the system
- Facilitates smoother upgrade of the solution
- Aligns with SAP standard software delivery processes by supporting download through the SAP Service Marketplace and by addressing issues with standard SAP Notes and correction instructions
- Uses the single sign-on functionality to enable buyers to access their SAP Integration Suite, managed gateway for spend management and SAP Business Network account from their SAP Business Network, SAP Ariba Procurement solutions, or SAP Ariba strategic sourcing solutions account.

[Supported Systems \[page 13\]](#)

Supported Systems

The following section lists the supported systems and the supported software in this release of SAP Integration Suite, managed gateway for spend management and SAP Business Network. For any feature-specific support information, see the corresponding section for the feature in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Overview Guide \[page 9\]](#).

ⓘ Note

If you have integrated SAP Business Network or SAP Ariba applications with SAP ERP or SAP S/4HANA using Ariba Network adapter for SAP NetWeaver version 9.0, 9.0 SP1, or 9.0 SP2, see [SAP Notes Framework Notification 2400737 - Ariba Cloud Integration Solutions for SAP: Supported SAP Product Versions](#) for additional information.

ⓘ Note

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2008 (Q3 2020), SAP Integration Suite, managed gateway for spend management and SAP Business Network supports integration with SAP S/4HANA 2020, using either SAP Integration Suite, managed gateway for spend management and SAP Business Network AddOn or the standard APIs (without the need for the SAP Integration Suite, managed gateway for spend management and SAP Business Network components) for certain business processes. For more information, see the [Source-to-Pay Business Process](#) documentation on the SAP Help Portal.

ⓘ Note

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports only Unicode systems. Currently, the supported encoding for data is UTF-8.

SAP ERP and SAP S/4HANA Systems

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the following versions of SAP ERP and SAP S/4HANA systems:

- **SAP ERP (SAP_BASIS 700 SP27)** is the SAP Basis version for all the following SAP ERP versions)
SAP EHP0 for SAP ERP 6.0 (SAP_APPL 600 SP22)
SAP EHP2 for SAP ERP 6.0 (SAP_APPL 602 SP12)
SAP EHP3 for SAP ERP 6.0 (SAP_APPL 603 SP11)
SAP EHP4 for SAP ERP 6.0 (SAP_APPL 604 SP12)
SAP EHP5 for SAP ERP 6.0 (SAP_APPL 605 SP09)
SAP EHP6 for SAP ERP 6.0 with non-HANA database (SAP_APPL 606 SP05)
SAP EHP6 for SAP ERP 6.0 with HANA database (SAP_APPL 606 Minimum supported version)
SAP EHP7 for SAP ERP 6.0 (SAP_APPL 617 Minimum supported version)
SAP EHP8 for SAP ERP 6.0 (SAP_APPL 618 Minimum supported version)

ⓘ Note

The minimum supported SAP ERP version for SAP Ariba Supplier Lifecycle and Performance is SAP EHP8 (SP12) for ERP 6.0.

- **SAP S/4HANA**

- SAP S/4HANA, on-premise edition 1909
- SAP S/4HANA, on-premise edition 1809
- SAP S/4HANA, on-premise edition 1709
- SAP S/4HANA, on-premise edition 1610

- SAP S/4HANA, on-premise edition 2020
- SAP S/4HANA, on-premise edition 2021
- SAP S/4HANA, on-premise edition 2022
- SAP S/4HANA, on-premise edition 2023

 Note

(Optional) For SAP S/4HANA, on-premise edition 2021, 2022, and 2023, in some cases, when you run the events for transactions in SAP S/4HANA systems, you may encounter the error, `RFC_NO_AUTHORIT` or `No RFC authorization for function module`.

This error occurs due to the missing standard SAP authorizations for events in transactions. You can resolve the error by adding the missing authorizations for the workflow user. However, SAP Ariba recommends that you apply the SAP Note [2798488](#) to resolve the error.

Transport Layer Security

SAP Integration Suite, managed gateway for spend management and SAP Business Network requires the minimum Transport Layer Security version, TLS 1.2.

SAP Process Integration Versions

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the following SAP Process Integration versions:

- SAP Process Integration 7.1
- SAP Process Integration 7.3
- SAP Process Integration 7.4
- SAP Process Integration 7.5

Add-On for SAP ERP and SAP S/4HANA

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the following add-ons for your SAP ERP and SAP S/4HANA systems:

- **SAP ERP**

SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP ERP

- **SAP S/4HANA**

SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP S/4HANA

ⓘ Note

For supplier data integration with SAP MDG, see [Install SAP Ariba CIG Add on](#) in [Integrating SAP MDG-S with SAP Ariba Supplier Lifecycle and Performance](#).

The SAP Integration Suite, managed gateway for spend management and SAP Business Network, supports integration with the invoice status portal on SAP Business Network without any additional configuration. For more information on invoicing and payment remittance in SAP Business Network Commerce Automation, see [Invoice Status Portal Configuration](#).

Software Components

Install the appropriate software component for your SAP ERP or SAP S/4HANA system:

- **SAP ERP**

SAP Integration Suite, managed gateway for spend management and SAP Business Network 1.0, add-on for SAP ERP

- SAP Integration Suite, managed gateway for spend management and SAP Business Network 1.0, add-on for SAP (ARBCI1 100)
 - If you are a customer using one of the following, use ARBCI1 100:
 - One or more of the SAP Ariba solutions
 - Customer using SAP ERP 6.0 EhPO or higher
- SAP Integration Suite, managed gateway for spend management and SAP Business Network for SAP ERP EHP4 to EHP8. V.1 (ARBCI2 100)
 - If you are a customer using one of the following, use ARBCI2 100:
 - Customer using SAP ERP 6.0 EhP 4 or higher
 - Customer using SAP Ariba Contracts, SAP Ariba Contract Invoicing, or SAP Ariba Strategic Sourcing Suite with service items
- SAP Integration Suite, managed gateway for spend management and SAP Business Network for RETAIL. Version 1.0 (ARBCIGR 100) - Use for EHP 0 to EHP8

ⓘ Note

- Before you install the SAP Integration Suite, managed gateway for spend management and SAP Business Network for RETAIL. Version 1.0 (ARBCIGR 100) software component, you must install the following software packages:
 - ARBCI1 100 SP01 (Software package specific to SAP Ariba)
 - EA-RETAIL EHPO SP22 (Enterprise software package)
- Use ARBCI2 100 if you want to use SAP Ariba Sourcing or SAP Ariba Contracts

- **SAP S/4HANA**

SAP Integration Suite, managed gateway for spend management and SAP Business Network 1.0, add-on for SAP S/4HANA

- ARIBA CLOUD INT FOR S/4HANA 1.0 (ARBCI1 10S)
- ARIBA CLOUD INT FOR S/4HANA 1.0 (ARBCI2 10S)
- ARIBA CLOUD INT FOR S/4HANA 1.0 (ARBCIGR 10S)

Supported Languages

The add-ons for SAP ERP and SAP S/4HANA systems are available only in English.

Supported SAP Ariba Solutions

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the following SAP Ariba cloud solutions with SAP ERP and SAP S/4HANA:

SAP Business Network	SAP Ariba Invoice Management
SAP Ariba Buying	SAP Ariba Buying and Invoicing
SAP Ariba Buying, multi-ERP edition	SAP Ariba Catalog
SAP Ariba Sourcing	SAP Ariba Contract Invoicing
SAP Ariba Collaborative Sourcing	SAP Ariba Strategic Sourcing Suite
SAP Business Network Commerce Automation	SAP Ariba Contracts
SAP Ariba Discount Management	SAP Business Network for Supply Chain
SAP Ariba Supplier Lifecycle and Performance	SAP Ariba Supplier Risk

SAP Ariba solutions and features not supported

SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the following:

- Integration with SAP Business Network
 - Payment remittance using payment integration toolkit
- Integration with SAP Ariba Procurement solutions
 - File channel transactional data integration for SAP Ariba Procurement solutions
 - Expense report
- Integration to support requisitions, blanket purchase orders, and blanket order invoices with limits
- Integration of SAP Ariba Strategic Sourcing Suite with the Fiori UI for RFQ/Quotation through SAP Integration Suite, managed gateway for spend management and SAP Business Network. If you are an existing customer using SAP S/4HANA on-premise, ensure that you do not send requests for quotations (RFQs) using the Fiori UI for RFQ/Quotation.

User interface fields not functional for features in SAP Integration Suite, managed gateway for spend management and SAP Business Network releases

- The following fields available on the user interface of SAP ERP or SAP S/4HANA system are not functional at this point of time:
 - **SAP Integration Suite, managed gateway for spend management and SAP Business Network 2008 (Q3 2020) release**
 - Support for bank statements or charge files to reconcile payments from SAP Business Network
 - The page, **Integration with Other SAP Components** **Managed Gateway for Spend&Network for Buyer** **SAP Business Network Integration** **General Settings-** **Setup the Interface** **Configure the Connections to Send Messages** contains the field, **Bank Charge Statements**.

- The SAP Integration Suite, managed gateway for spend management and SAP Business Network portal contains the document type [BankChargeRequest](#).
- The page [▶ Integration with Other SAP Components](#) [▶ Managed Gateway for Spend&Network for Buyer](#) [▶ SAP Business Network Integration](#) [▶ Application Specific Settings](#) [▶ Bank Statement or Charge File](#) [▶ Maintain Parameters for Bank Statement or Charge File](#) contains the field to maintain the parameter information.
- The page, [▶ Integration with Other SAP Components](#) [▶ Managed Gateway for Spend&Network for Buyer](#) [▶ SAP Business Network Integration](#) [▶ Business Add-Ins\(BAdl\)](#) [▶ Bank Statement or Charge File](#) [▶ BAdls for Bank Statement or Charge File](#) contains the changes for the BAdl for bank statement and charge files.
- **SAP Integration Suite, managed gateway for spend management and SAP Business Network December 2019 release**
 - The **Bank Master** integration is not supported and functional in SAP Ariba Supplier Lifecycle and Performance
 - The page [▶ Integration with Other SAP Components](#) [▶ Managed Gateway for Spend&Network for Buyer](#) [▶ SAP Ariba Strategic Sourcing Suite Integration](#) [▶ General Settings-](#) [▶ Setup the Interface](#) contains the entries, **Bank Master** and **Update Bank Master**. The section, **Interface Setup for IDOC**, contains these fields in the list of outbound transactions.
 - The page [▶ Integration with Other SAP Components](#) [▶ Managed Gateway for Spend&Network for Buyer](#) contains the message types to send the bank account information. [▶ Master Data Integration](#) [▶ Bank Master Integration](#) [▶ Assign Basic Type to Bank Master Idoc](#)
 - The page [▶ Integration with Other SAP Components](#) [▶ Managed Gateway for Spend&Network for Buyer](#) [▶ Master Data Integration](#) [▶ Schedule Job for Bank Master](#) contains the information about the background job to schedule the bank master data.
 - The page [▶ Integration with Other SAP Components](#) [▶ Managed Gateway for Spend&Network for Buyer](#) [▶ Master Data Integration](#) [▶ Bank Master Integration](#) [▶ Bank Master Distribution Model](#) displays the configuration for setting up the distribution model.
 - The page [▶ Integration with Other SAP Components](#) [▶ Managed Gateway for Spend&Network for Buyer](#) [▶ Master Data Integration](#) [▶ Enhancements](#) [▶ Business Add-Ins\(BAdls\)](#) [▶ BAdls for Bank Master Data](#) contains the changes for the bank master data BAdl.

Certification of SAP Integration Suite, managed gateway for spend management and SAP Business Network with SAP S/4HANA 2021

SAP Ariba certifies the integration between SAP S/4HANA 2021 and the following SAP Ariba solutions using SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- SAP Business Network

- SAP Ariba Buying
- SAP Ariba Buying, multi-ERP edition
- SAP Ariba Sourcing
- SAP Ariba Collaborative Sourcing
- SAP Business Network Commerce Automation
- SAP Ariba Discount Management
- SAP Ariba Supplier Lifecycle and Performance
- SAP Ariba Invoice Management
- SAP Ariba Buying and Invoicing
- SAP Ariba Catalog
- SAP Ariba Contract Invoicing
- SAP Ariba Strategic Sourcing Suite
- SAP Ariba Contracts
- SAP Ariba Supply Chain Collaboration for Buyers

Starting, release SAP Integration Suite, managed gateway for spend management and SAP Business Network 2111,SAP Integration Suite, managed gateway for spend management and SAP Business Network supports integration with SAP S/4HANA 2021, using SAP Integration Suite, managed gateway for spend management and SAP Business Network AddOn.

Note

(Optional) In some cases, when you run the events for transactions in SAP S/4HANA systems, you can face the following error, `RFC_NO_AUTHORIT` or `No RFC authorization for function module....`

This error occurs due to the missing standard SAP authorizations for events in transaction. You can resolve the error by adding the missing authorizations for the workflow user. However, SAP Ariba recommends that you apply the SAP Note [2798488](#) to resolve the errors.

Certification of SAP Integration Suite, managed gateway for spend management and SAP Business Network for SAP S/4HANA 2022

SAP Ariba certifies the integration between SAP S/4HANA 2022 and the following SAP Ariba solutions using SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP S/4HANA:

- SAP Business Network
- SAP Ariba Buying
- SAP Ariba Buying, multi-ERP edition
- SAP Ariba Sourcing
- SAP Ariba Collaborative Sourcing
- SAP Business Network Commerce Automation
- SAP Ariba Discount Management

- SAP Ariba Supplier Lifecycle and Performance
- SAP Ariba Invoice Management
- SAP Ariba Buying and Invoicing
- SAP Ariba Catalog
- SAP Ariba Contract Invoicing
- SAP Ariba Strategic Sourcing Suite
- SAP Ariba Contracts
- SAP Business Network for Supply Chain for Buyers

SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2211 (Q4 2022), supports integration with SAP S/4HANA 2022, using SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP S/4HANA.

Note

(Optional) In some cases, when you run the events for transactions in SAP S/4HANA systems, you may encounter the error, `RFC_NO_AUTHORIT` or `No RFC authorization for function module`.

This error occurs due to the missing standard SAP authorizations for events in transactions. You can resolve the error by adding the missing authorizations for the workflow user. However, SAP Ariba recommends that you apply the SAP Note [2798488](#) to resolve the error.

Certification of SAP Integration Suite, managed gateway for spend management and SAP Business Network for SAP S/4HANA 2023

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- SAP Ariba Discount Management
- SAP Ariba Supplier Lifecycle and Performance
- SAP Ariba Invoice Management
- SAP Ariba Buying and Invoicing
- SAP Ariba Catalog
- SAP Ariba Contract Invoicing
- SAP Ariba Strategic Sourcing Suite
- SAP Ariba Contracts

- SAP Business Network for Supply Chain for Buyers

SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2311 (Q4 2023), supports integration with SAP S/4HANA 2023, using SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP S/4HANA.

(Optional) In some cases, when you run the events for transactions in SAP S/4HANA systems, you may encounter the error, `RFC_NO_AUTHORIT` or `No RFC authorization for function module`.

This error occurs due to the missing standard SAP authorizations for events in transactions. You can resolve the error by adding the missing authorizations for the workflow user. However, SAP Ariba recommends that you apply the SAP Note [2798488](#) to resolve the error.

Data flows

The following sections cover the data flows for the SAP Ariba solutions.

[SAP Integration Suite, managed gateway for spend management and SAP Business Network - Overview \[page 23\]](#)

[SAP Integration Suite, managed gateway for spend management and SAP Business Network – Connectivity \[page 24\]](#)

[SAP Business Network Commerce Automation \[page 24\]](#)

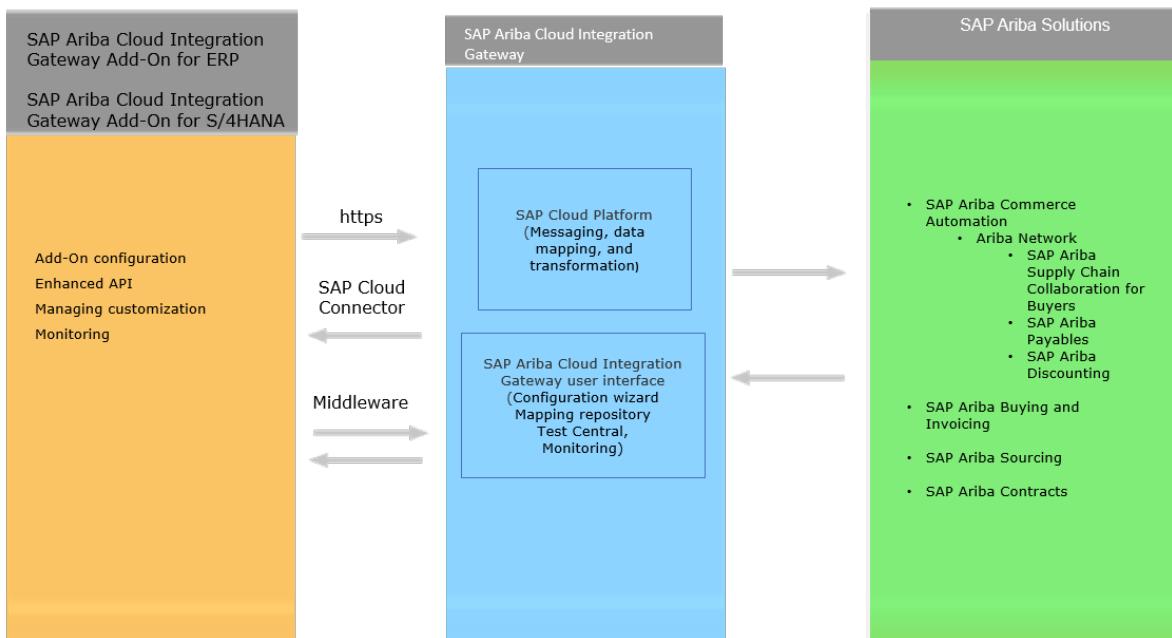
[SAP Business Network for Supply Chain \[page 26\]](#)

[SAP Ariba Buying and Invoicing \[page 32\]](#)

[SAP Ariba Sourcing, SAP Ariba Contracts, and SAP Ariba Supplier Lifecycle and Performance Master Data \[page 32\]](#)

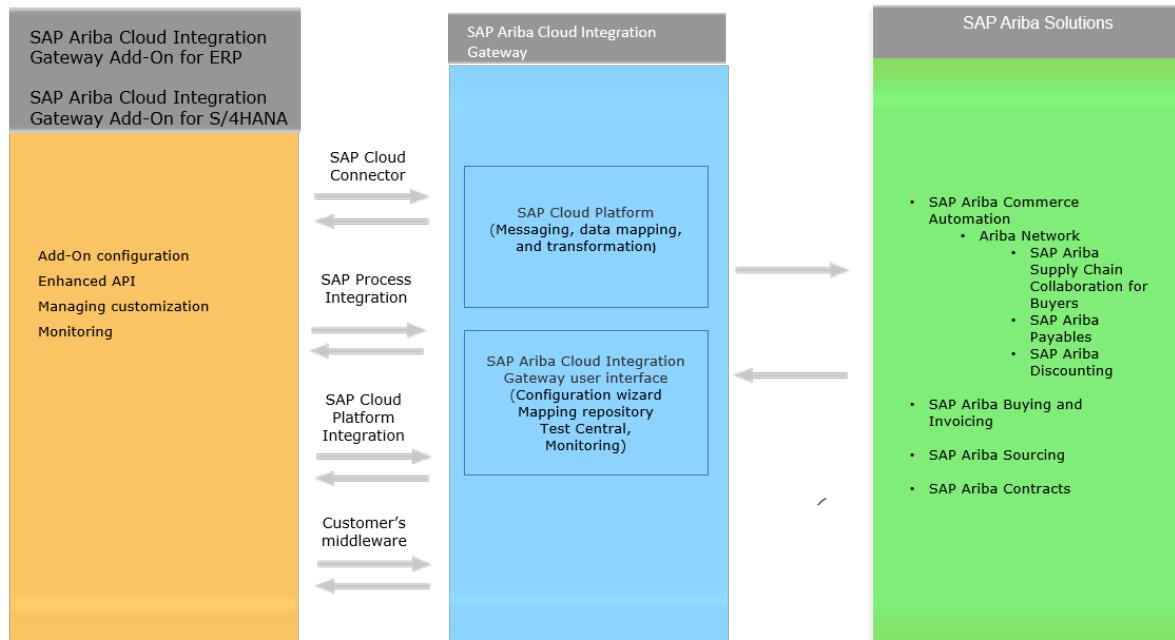
SAP Integration Suite, managed gateway for spend management and SAP Business Network - Overview

SAP Ariba Cloud Integration Gateway – Overview



SAP Integration Suite, managed gateway for spend management and SAP Business Network – Connectivity

SAP Ariba Cloud Integration Gateway – Connectivity options



SAP Business Network Commerce Automation

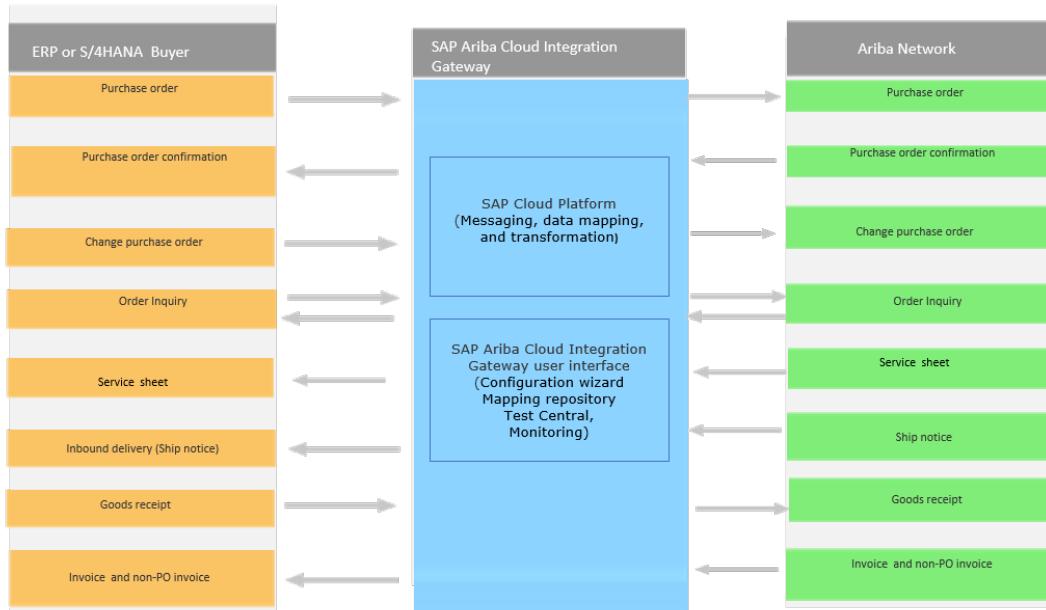
[SAP Business Network Commerce Automation – SAP Business Network \[page 25\]](#)

[SAP Ariba Discounting – SAP Business Network \[page 25\]](#)

[SAP Ariba Payables \(Supply Chain Financing\) \[page 26\]](#)

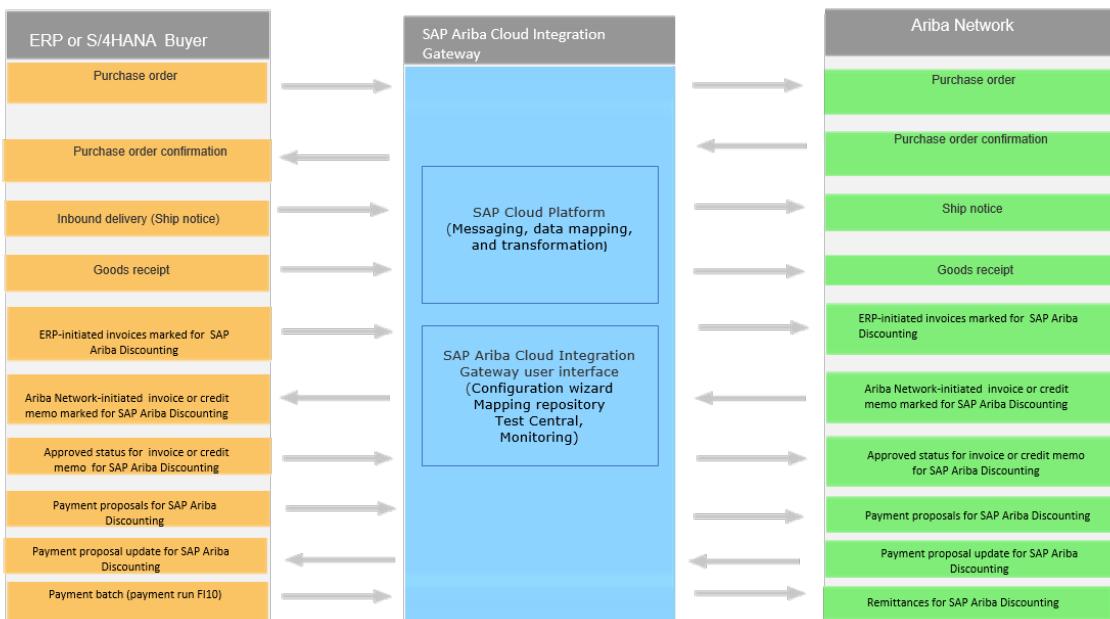
SAP Business Network Commerce Automation – SAP Business Network

SAP Ariba Commerce Automation – Ariba Network



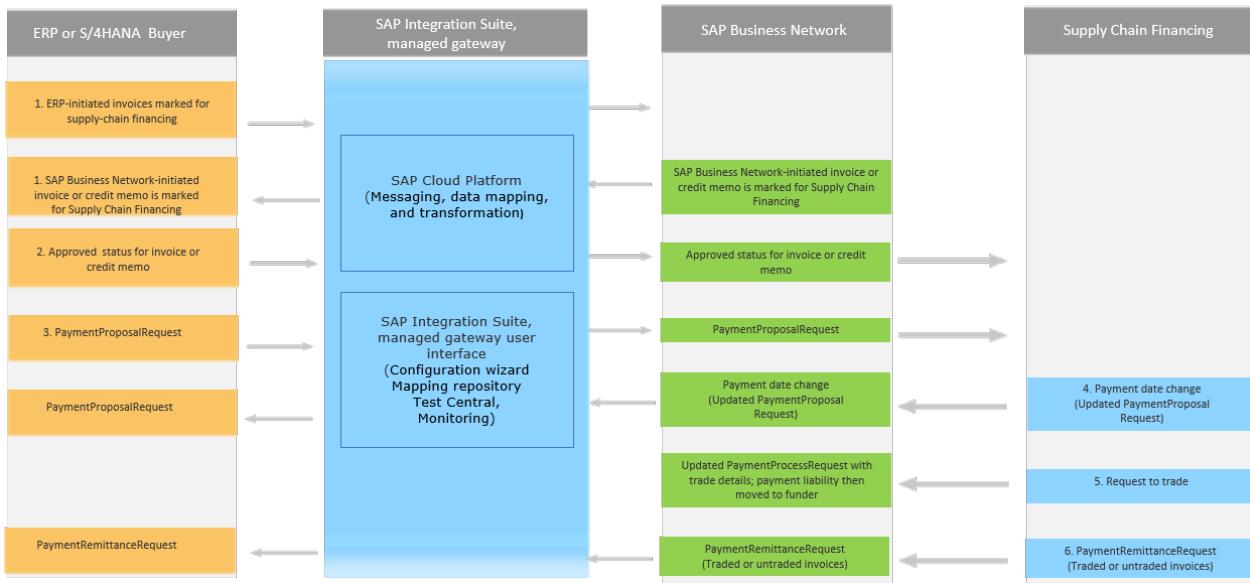
SAP Ariba Discounting – SAP Business Network

SAP Ariba Discounting – Ariba Network



SAP Ariba Payables (Supply Chain Financing)

SAP Ariba Payables (Supply Chain Financing) – SAP Business Network



SAP Business Network for Supply Chain

[SAP Business Network for Supply Chain - Quality inspection \[page 27\]](#)

[SAP Business Network for Supply Chain - Quality notification \[page 28\]](#)

[SAP Business Network for Supply Chain - Supplier-managed inventory process \[page 28\]](#)

[SAP Business Network for Supply Chain - Subcontracting process \[page 29\]](#)

[SAP Business Network for Supply Chain - Consignment collaboration \[page 30\]](#)

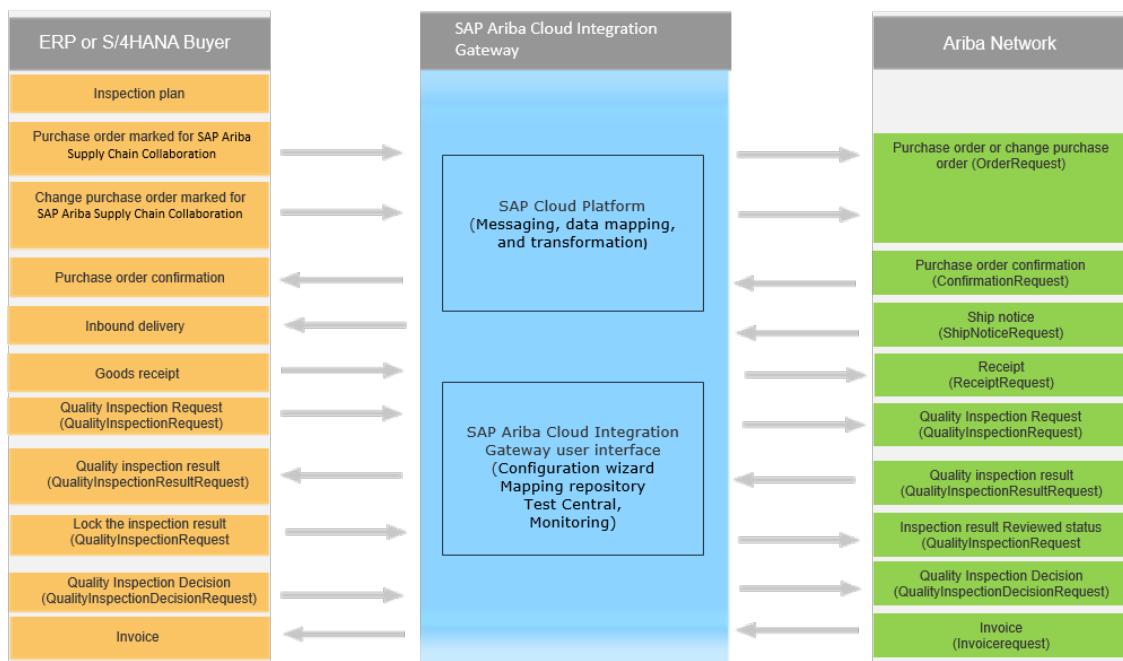
[Returns collaboration_movement type 122 without delivery \[page 30\]](#)

[Returns collaboration_movement type 161 without delivery \[page 31\]](#)

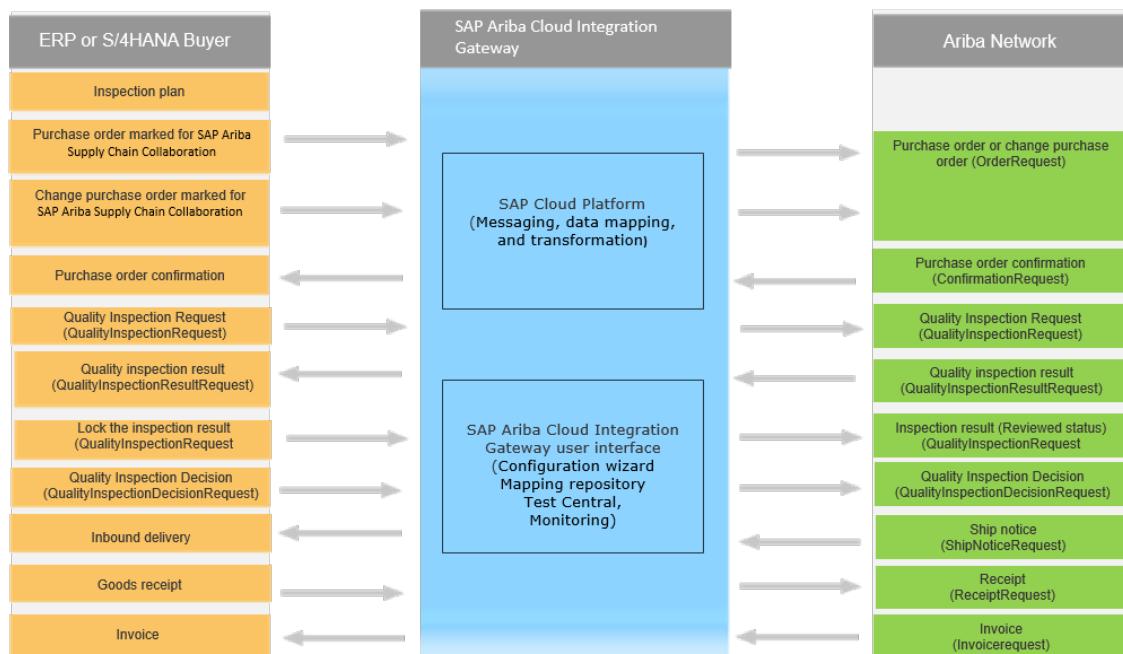
[Returns collaboration_movement type 161 with delivery \[page 31\]](#)

SAP Business Network for Supply Chain - Quality inspection

SAP Ariba Supply Chain Collaboration - Quality Inspection created automatically

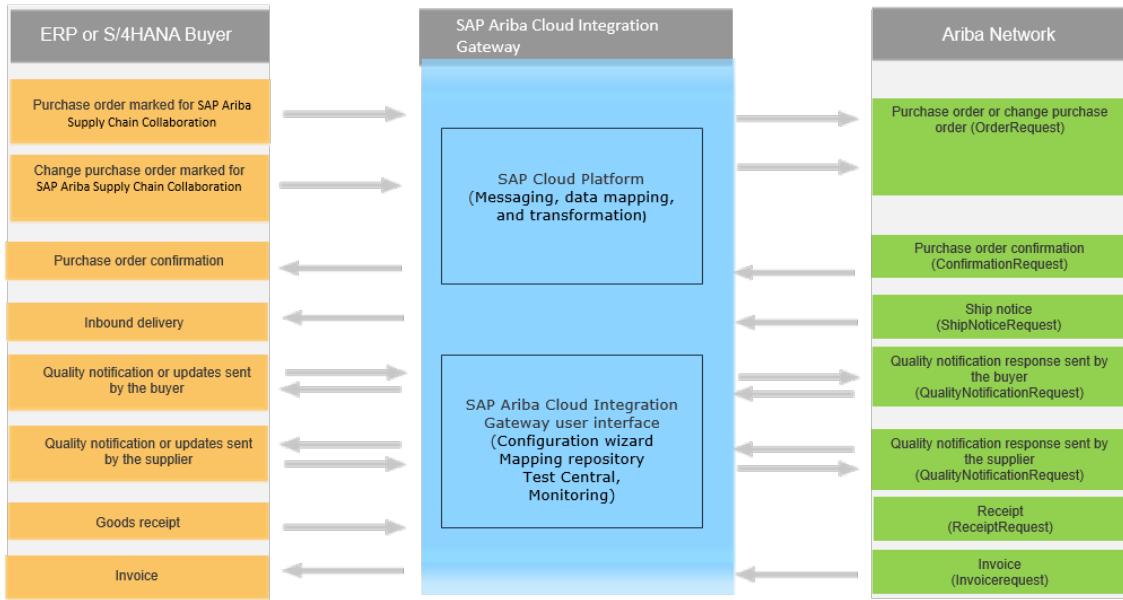


SAP Ariba Supply Chain Collaboration - Quality Inspection created manually



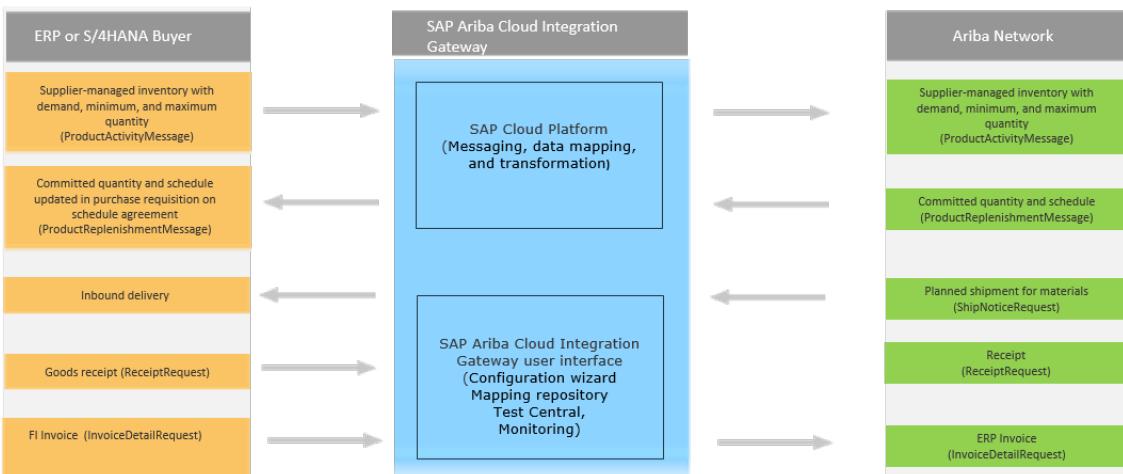
SAP Business Network for Supply Chain - Quality notification

SAP Ariba Supply Chain Collaboration - Quality notification



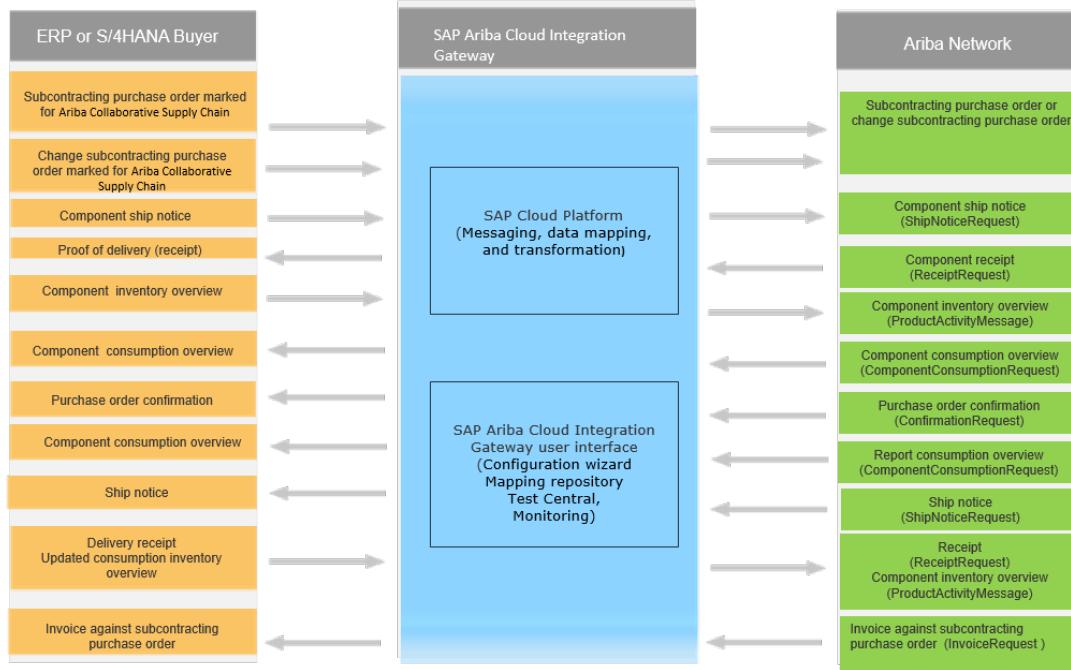
SAP Business Network for Supply Chain - Supplier-managed inventory process

SAP Ariba Supply Chain Collaboration - Supplier-managed inventory process



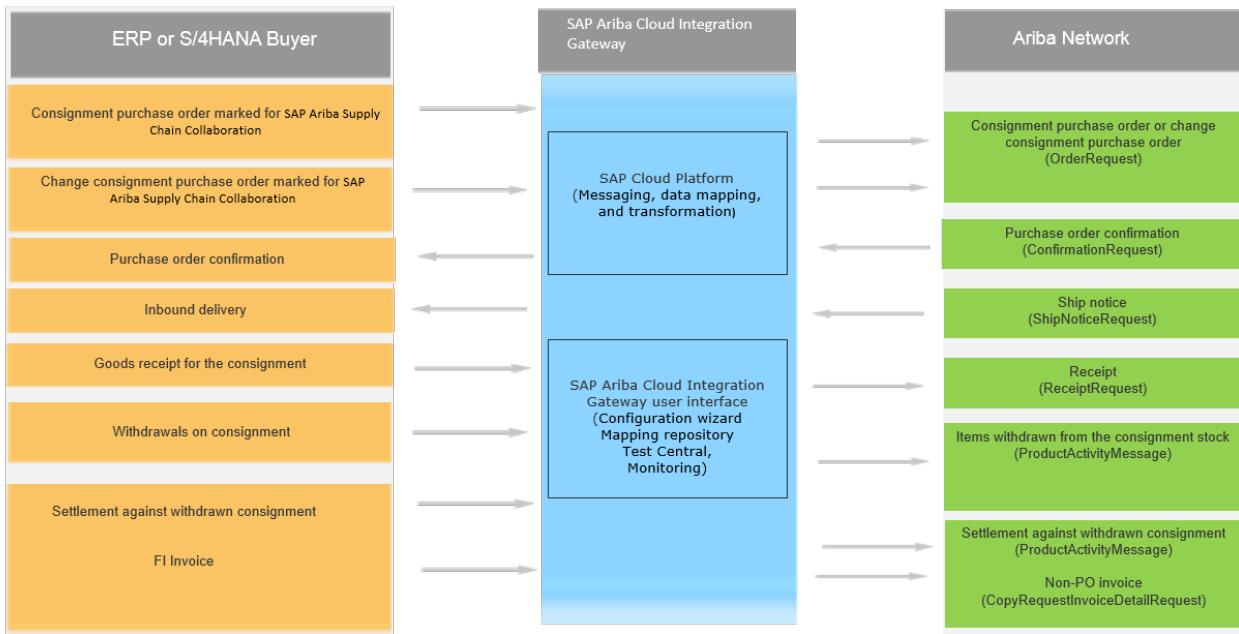
SAP Business Network for Supply Chain - Subcontracting process

SAP Ariba Supply Chain Collaboration - Subcontracting process



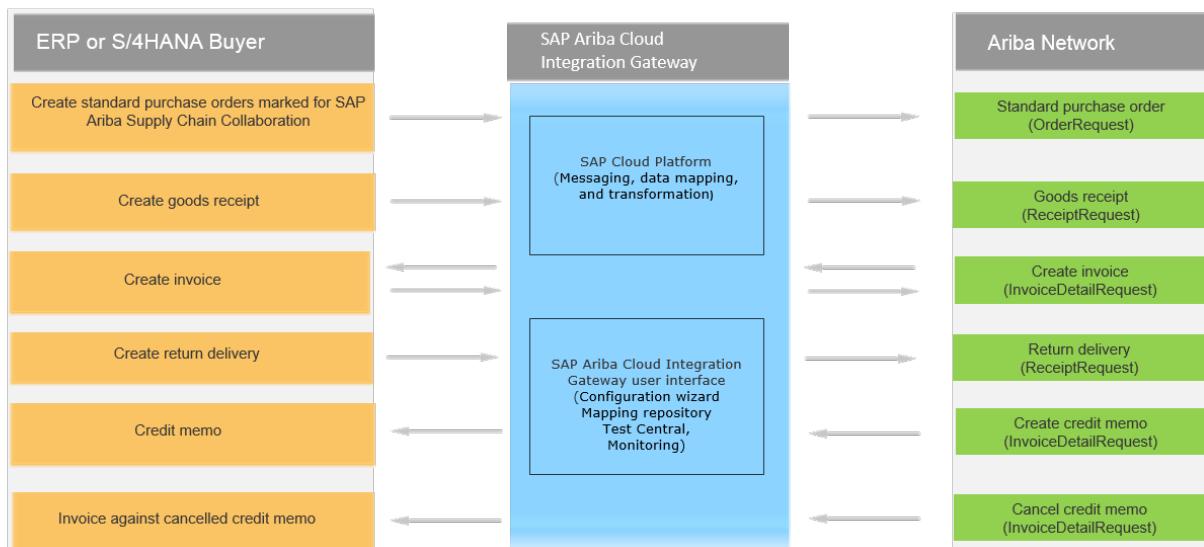
SAP Business Network for Supply Chain -Consignment collaboration

SAP Ariba Supply Chain Collaboration - Consignment collaboration



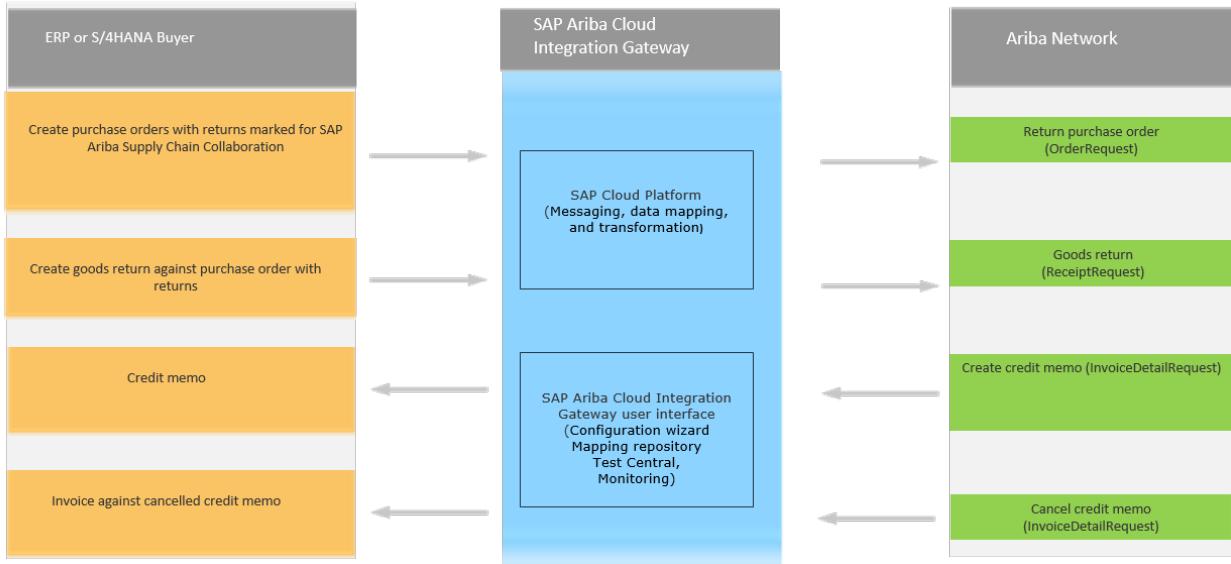
Returns collaboration_movement type 122 without delivery

SAP Ariba Supply Chain Collaboration - Returns collaboration (movement type 122 without delivery)



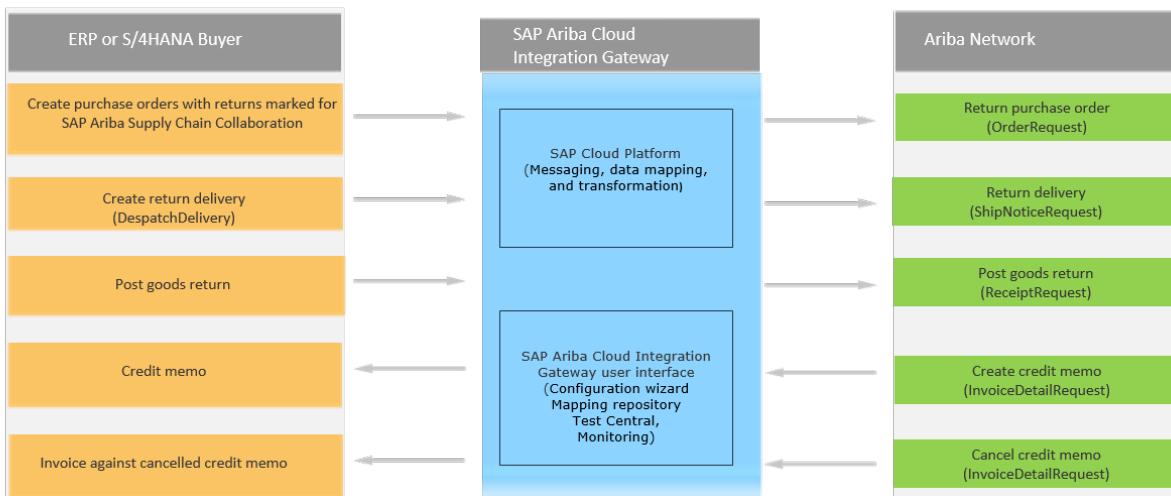
Returns collaboration_movement type 161 without delivery

SAP Ariba Supply Chain Collaboration - Returns collaboration (movement type 161 without delivery)



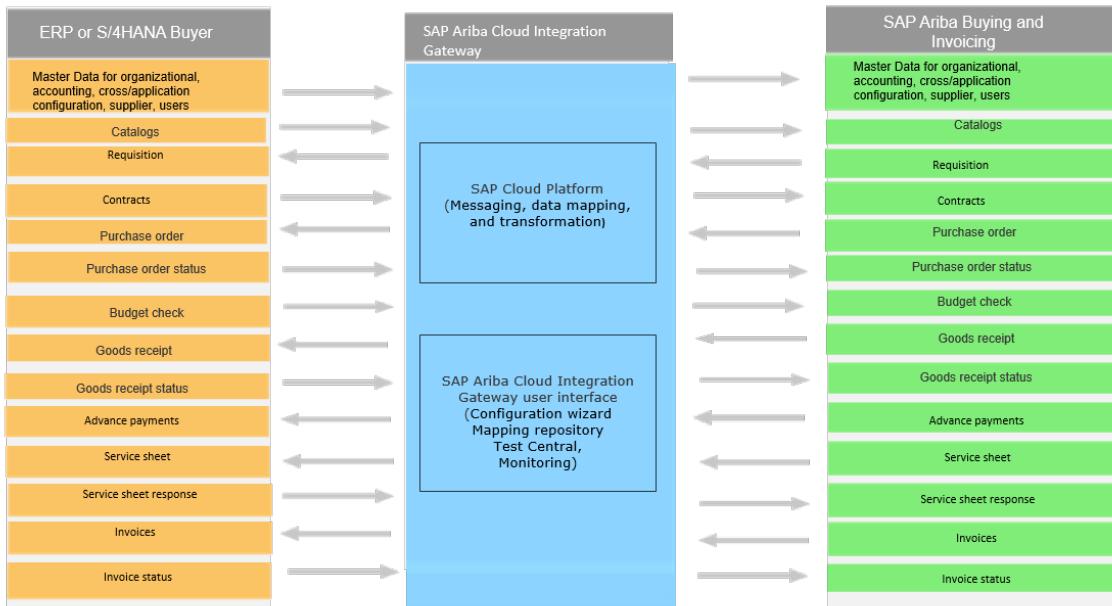
Returns collaboration_movement type 161 with delivery

SAP Ariba Supply Chain Collaboration - Returns collaboration (movement type 161 with delivery)



SAP Ariba Buying and Invoicing

SAP Ariba Buying and Invoicing



SAP Ariba Sourcing, SAP Ariba Contracts, and SAP Ariba Supplier Lifecycle and Performance Master Data

[Automated RFQ processing \[page 33\]](#)

[SAP Ariba Sourcing \[page 33\]](#)

[SAP Ariba Product Sourcing master data \[page 34\]](#)

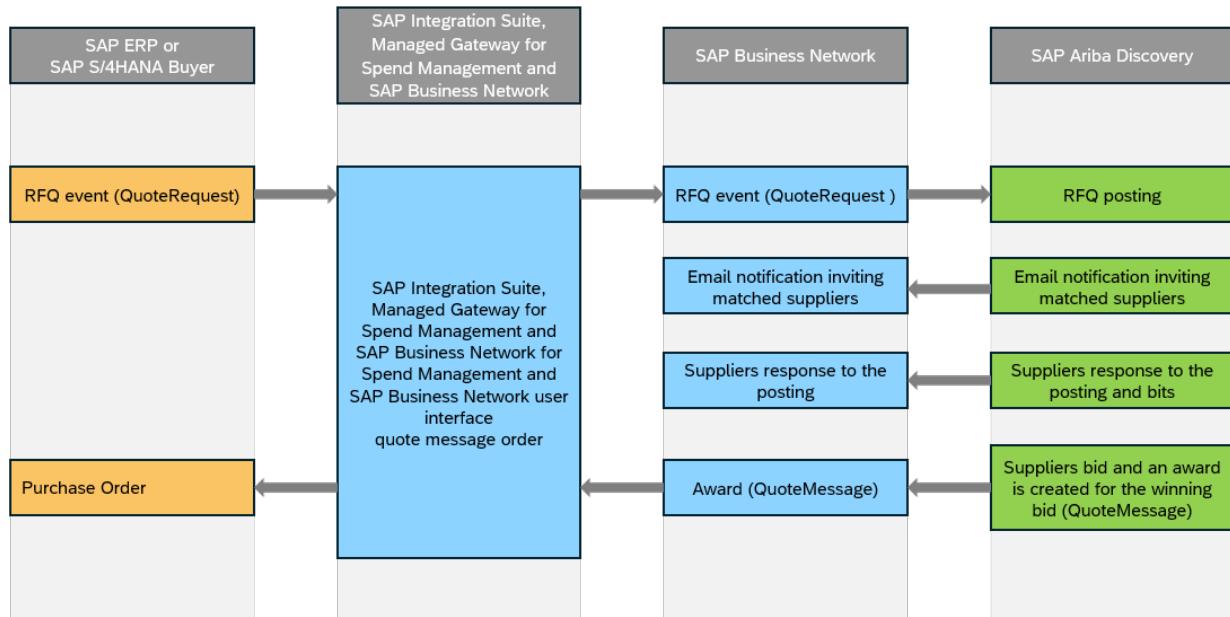
[SAP Ariba Sourcing and SAP Ariba Contracts - Master Data \[page 34\]](#)

[SAP Ariba Contracts - Contracts \[page 35\]](#)

Automated RFQ processing

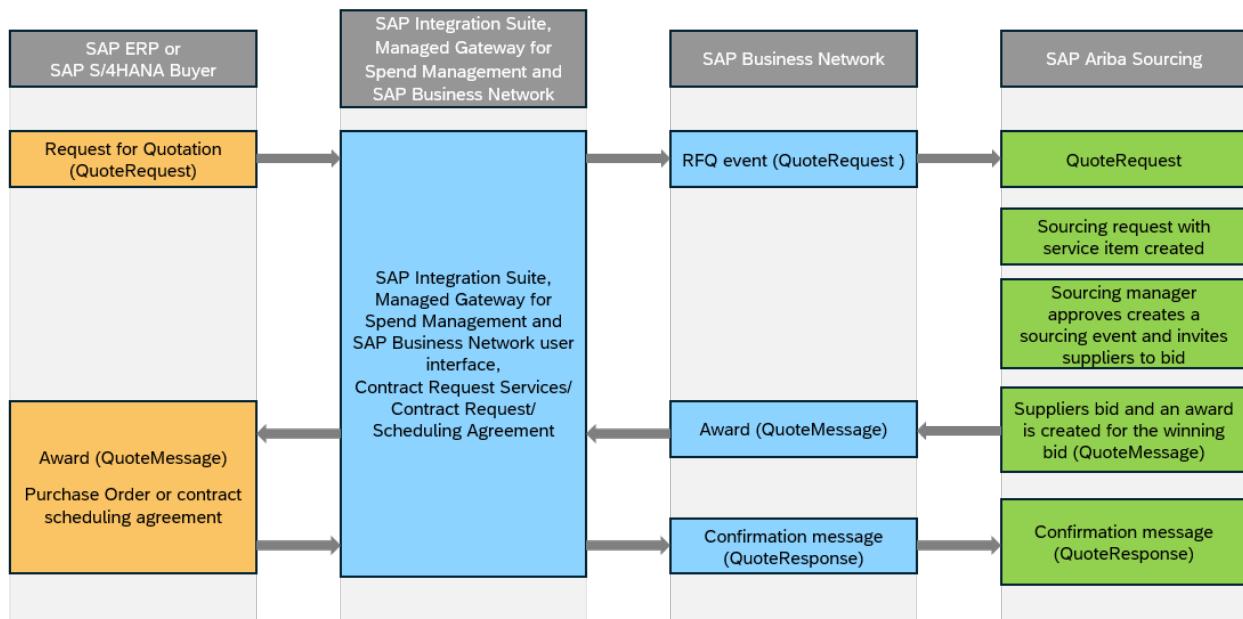
Automated RFQ processing

Automated RFQ processing



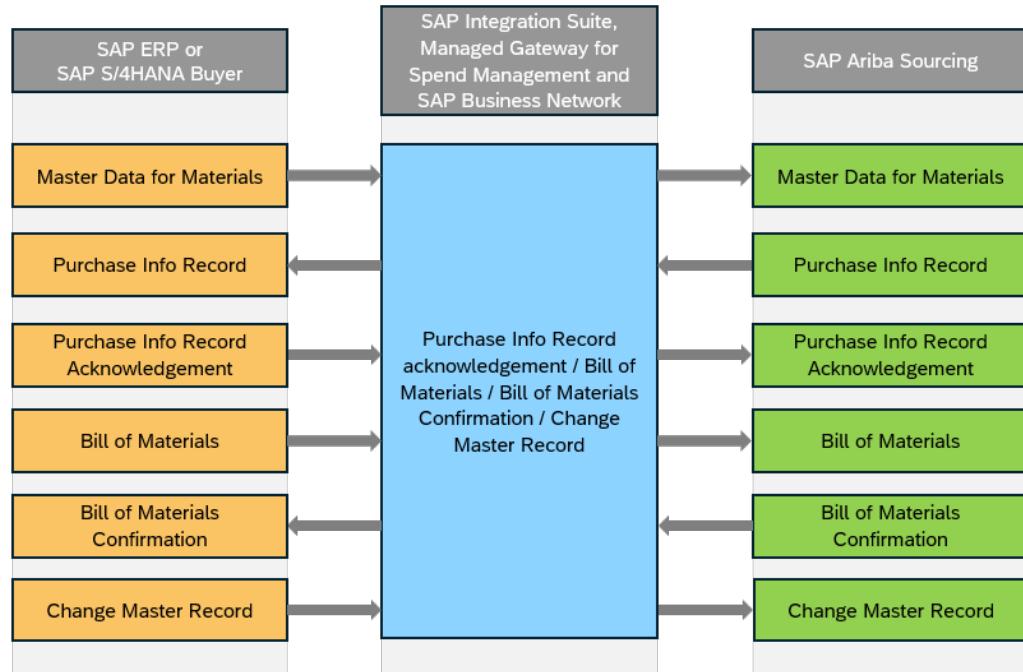
SAP Ariba Sourcing

SAP Ariba Sourcing



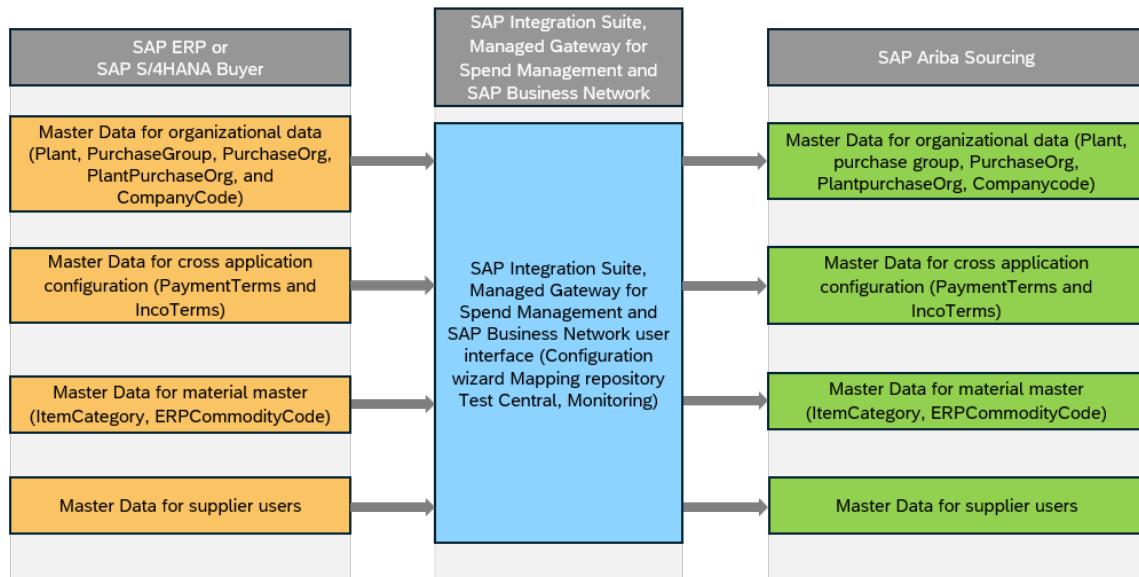
SAP Ariba Product Sourcing master data

SAP Ariba Product Sourcing Master Data

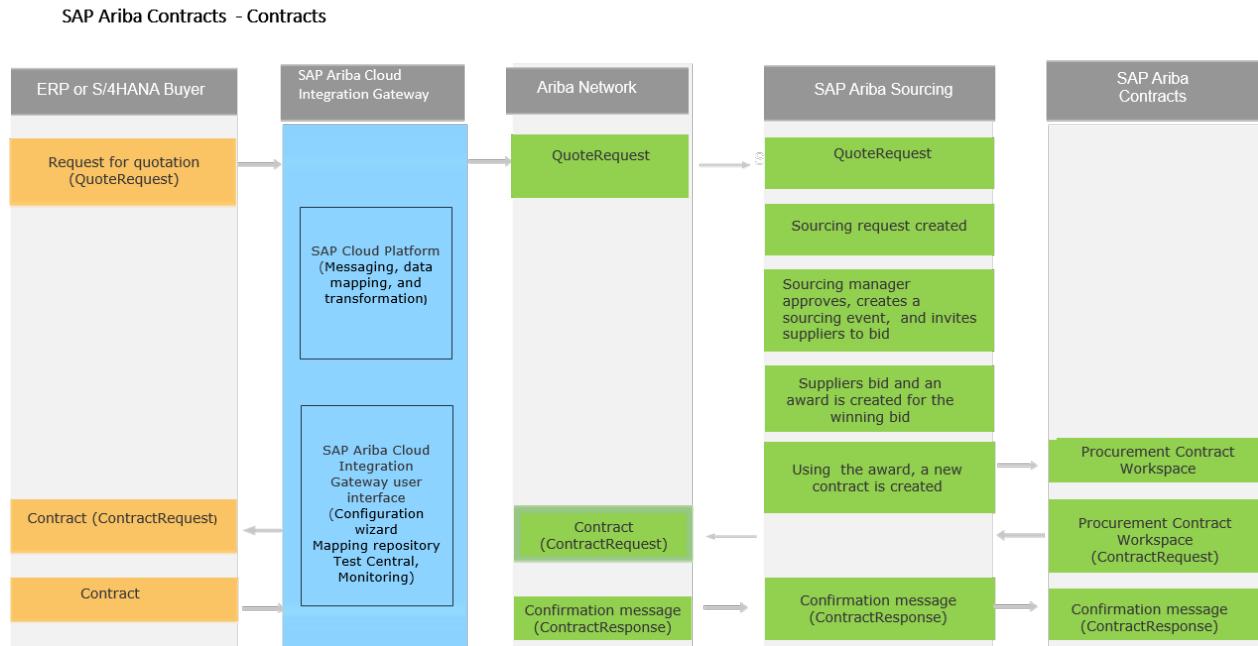


SAP Ariba Sourcing and SAP Ariba Contracts - Master Data

SAP Ariba Sourcing and SAP Ariba Contracts - Master Data



SAP Ariba Contracts - Contracts



High-Level Steps About Setting Up SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network

The following steps provide an overview to setting up the SAP Integration Suite, managed gateway for spend management and SAP Business Network:

1. SAP Ariba recommends that you read the [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Overview Guide \[page 9\]](#) for the prerequisites and limitations listed for the supported functionalities on SAP Integration Suite, managed gateway for spend management and SAP Business Network.
2. Install and set up SAP Integration Suite, managed gateway for spend management and SAP Business Network.

ⓘ Note

Support Pack - Support Policy

Starting with the SAP Ariba 2602 release, the service pack for the SAP Integration Suite, managed gateway for spend management and SAP Business Network AddOn 1.0 is released four times a year: February, May, August, and November. This applies to SAP S/4HANA, SAP S/4HANA Cloud Private Edition, and SAP ECC. SAP provides support for all Add-On support packages released within the 12-month period preceding the most recent quarterly Add-On support package. Ensure that you refer to Product Availability Matrix (PAM) for information on the latest service pack.

SAP will provide support for all Add-On support packages released within the 12-month period preceding the most recent quarterly Add-On support package.

SAP Integration Suite, managed gateway for spend management and SAP Business Network has the following components. Each of the components has different service pack levels:

SAP ERP	SAP S/4HANA on-premise
ARBCI1 100	ARBCI1 10S
ARBCI2 100	ARBCI2 10S
ARBCIGR 100	ARBCIGR 10S

You determine the current version for the support package based on the highest service pack level.

SAP Ariba recommends that customers must always upgrade to the latest SP release that is available at GA (General Availability) / RTC (Released To customer). The new releases always include the new features, additional enhancements, and defect fixes and customers can benefit from them.

Please see the SAP Note [2400737](#) (SAP Integration Suite, managed gateway for spend management and SAP Business Network Solutions for SAP: Supported SAP Product Versions) that contains additional information on the supported SAP product version.

- Download the components for SAP Integration Suite, managed gateway for spend management and SAP Business Network. If you are a new customer using SAP Integration Suite, managed gateway for spend management and SAP Business Network, see [Downloading and Installing the Add-On for SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#)

New Customers in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide.

If you are an existing customer using SAP Integration Suite, managed gateway for spend management and SAP Business Network, see [Upgrade the Existing Add-On Installation for SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Customers in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#). For more information, see [Downloading and Installing the Add-On from SAP for Me in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#)

- After you install the components, configure your SAP Ariba application to access SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see the section on how to configure your SAP Ariba solution in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- If you have trouble signing in to SAP Integration Suite, managed gateway for spend management and SAP Business Network, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.
- Define the authorizations for the SAP Ariba solutions you require. For more information, see [Defining Authorizations in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
 - Set up the SAP Cloud Connector. See [Configuring SAP Cloud Connector in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#)
 - (Optional) Configure the SAP Integration Suite, managed gateway for spend management and SAP Business Network to use a middleware. See [Integrating Using a Middleware](#).

Note

The middleware that you're using must be compliant with the Server Name Indication (SNI) protocol. If the middleware is not SNI-compliant, you may experience errors when connecting to SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [KB0769369](#).

- Go to your SAP Ariba application and use your SAP Ariba user account to sign in to SAP Integration Suite, managed gateway for spend management and SAP Business Network . SAP Ariba does not allow you to sign in to SAP Integration Suite, managed gateway for spend management and SAP Business Network directly.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network only supports the Test and Production landscapes.SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the Development (-D) landscape. As a result, you cannot connect directly from any of the SAP Ariba applications or using a network development (-D) account to SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Configure your SAP Ariba application to send and receive transaction documents from SAP Integration Suite, managed gateway for spend management and SAP Business Network. Ensure that you enable the required settings for each of the SAP Ariba applications. For more information about the prerequisites, see [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Overview Guide \[page 9\]](#).
 - Set up the global settings to connect to the SAP Integration Suite, managed gateway for spend management and SAP Business Network. See [Configuring Global Settings in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#)
 - Create and set up projects on SAP Integration Suite, managed gateway for spend management and SAP Business Network. See [Configuring a SAP Integration Suite, Managed Gateway for Spend Management](#)

and SAP Business Network Project for SAP Ariba Solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide

- Test the connection to the SAP Ariba solution.
3. Configure the time zone and its rules on your SAP ERP and SAP S/4HANA system. Use the transaction code STZBC to maintain the time zone and its rules. For example, maintain the time zone as PST and configure the time zone rules and format for it.

Note

The **Time Zone** field supports only 3 characters.

4. Configure the SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Configure general settings for transaction documents for the required SAP Ariba solutions. For more information, see [Configuring General Settings for Transaction Documents](#).
 - Import master data for the required SAP Ariba solutions. For more information, see [Working with Master Data](#).
 - Configure transactions documents for the required SAP Ariba solutions. For more information, see [Configuring Supported Transactions](#).
 - Set up cross references on SAP Integration Suite, managed gateway for spend management and SAP Business Network for the required SAP Ariba solutions. For more information, see [Cross References Setup on SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#).
 - Test document transactions for the required SAP Ariba solutions. For more information, see [Testing Document Transactions on SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#).
 - Publish a project on SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Publishing a Project on SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#).
 - Manage customization for different transactions. For more information, see [Customization](#).
 - Monitor and manage errors for different transactions. For more information, see [Monitoring Messages and Troubleshooting Errors](#).
5. If you are a customer and use multiple ERP systems, configure the end points in your buyer account on SAP Business Network. Ensure that you also specify the following POST URLs to receive the transaction documents through the POST method:
- If you are using the Europe data center:
 - Specify `https://acig.ariba.com/http/receiveCXML` if you are using a production account.
 - Specify `https://testacig.ariba.com/http/receiveCXML` if you are using a test account.
- For more information about configuring end points on SAP Business Network, see [SAP Business Network Buyer Administration Guide](#).
6. When you configure the system IDs for your test and production environments, specify unique system IDs for the test and production environments. Ensure that you do not specify the same system ID for both the test and production environments. SAP Integration Suite, managed gateway for spend management and SAP Business Network identifies the system ID as a unique identifier for each backend system.

Note

- SAP Integration Suite, managed gateway for spend management and SAP Business Network only supports ASCII values. The supported ASCII values are alphabets (uppercase and lowercase), numbers (0 to 9), and special characters (<, >, ., ~, and _).

- A system ID can be associated with only one realm ID. If you have multiple backend systems and all the backend systems use the same integration method as a part of their connection setup, you can use custom mapping to route documents from the same realm ID to the required backend system.
- The system ID that you configure during project creation must match the system ID present in any documents sent from SAP ERP or SAP S/HANA to SAP Ariba solutions.

7. SAP Integration Suite, managed gateway for spend management and SAP Business Network only supports the SAP variant for integration with SAP Ariba solutions.

SAP Ariba recommends that customers must use the SAP variant that SAP Integration Suite, managed gateway for spend management and SAP Business Network supports for a seamless and error-free integration.

8. If you are an existing buyer user using one of the following and want to use SAP Integration Suite, managed gateway for spend management and SAP Business Network, see [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Migration Guide](#):

- Ariba Network adapter for SAP NetWeaver for SAP Business Network
- Ariba Network adapter for SAP NetWeaver for SAP Ariba strategic sourcing solutions
- SAP ERP integrated for SAP Ariba Procurement solutions

Working with Master Data

[Overview of Master Data \[page 40\]](#)

[Import Master Data for SAP Ariba Procurement solutions \[page 41\]](#)

[Import Master Data for SAP Ariba Sourcing and SAP Ariba Contracts \[page 70\]](#)

[Integration to Support Integration of Supplier Data Managed in SM Administration With SAP Integration Suite, managed gateway for spend management and SAP Business Network \[page 80\]](#)

[Integration to Support Master Data Native Integration \[page 92\]](#)

Overview of Master Data

Master data consists of general information that reside on SAP ERP that SAP Ariba uses to build and process data in transactions.

Buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network can seamlessly integrate master data from the SAP ERP system to the SAP Ariba solutions using the following:

- Full-load master data
- Incremental load event to import the changed master data

ⓘ Note

The SAP Integration Suite, managed gateway for spend management and SAP Business Network supports customized master data. If you have customized events on your SAP Ariba Procurement solutions for master data, ensure that you make the necessary configurations on your ERP system to process the master data.

ⓘ Note

To use the User universal unique identifier (user UUID) feature, you must ensure the following:

- SAP S/4HANA 1809 and later versions
- SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2202_SP0016 (Q1 2022) and later versions

If you are using SAP S/4HANA 1809 and later versions the user universal unique identifier (user UUID) is supported.

For more information, refer to *Integrating the Service with SAP Task Center* in [SAP Cloud Identity Services - Identity Authentication](#).

Import Master Data for SAP Ariba Procurement solutions

The SAP Ariba Procurement solutions provide the integration events for standard data imports from SAP. Because your SAP ERP implementation might contain additional data to be included with the SAP Ariba Procurement solutions purchase orders, invoices, or receipts, you modify these data imports to include such data.

ⓘ Note

When you import large amounts of master data from your procurement ERP system, ensure that you run the master data import task in the background.

Import Master Data

Master data consists of general information stored in SAP that is used in SAP Ariba Procurement solutions to construct requisitions, receipts, or invoices. Transaction data includes information like invoice, purchase orders, and receipts.

You can import master data by running integrations events manually from SAP Ariba Administrator.

Buyers using the SAP Ariba Procurement solutions integrated with SAP can do the following:

- Perform a simplified master data integration for supplier, supplier location, payment terms, remittance location, and user data between the SAP Ariba Procurement solutions and SAP ERP.
- Integrate master data directly from SAP ERP to an SAP Ariba Procurement solutions system seamlessly.
- Run the Incremental Load while running the master data events directly.
- Integrate master data from SAP ERP to SAP Ariba Procurement solutions in a Federated Process Control-enabled environments.
- Pull the following master data in different languages directly:
 - Account Category Language
 - Cost Center Language
 - ERP Commodity Code Language
 - General Ledger Language
 - Tax Code Language
 - Payment Terms Language
- Run the Full and Incremental Delete operation directly through the Direct Connectivity Integration method.

Required Data

SAP Ariba Procurement solutions imports only the data it needs to create properly formed purchase orders, invoice, and receipt information for SAP.

SAP Ariba Procurement solutions imports the following data from SAP:

- Account assignment categories
- Accounting field display status
- Asset and asset class
- Cost centers
- Company Codes
- Currency conversion rates
- ERP commodity code
- Fund management data including funds, funds center, FM Area, functional area, commitment item, earmarked fund, budget period, and grant
- General ledger accounts
- Internal orders
- Language-specific names for data imports
- Payment terms
- Plants
- Plant purchase organization
- Purchasing groups
- Purchasing organizations
- Supplier related information
- Tax codes
- User and User groups
- WBS (Work Breakdown Structure) elements

Optionally, you can import the following data from SAP with some configuration on your part:

- Users
- Release authorizations
- User release authority

ⓘ Note

Vendor master payment terms import is available in SAP Ariba Procurement solutions.

Requirements for Importing Master Data

- You must download and import the transport requests into your SAP ERP system. Ensure that you implement the following SAP notes before importing the master data to avoid a dump occurring with the runtime error:
 - 1402826 - Supplement to Note 548131
 - 1716777 - Runtime error IMPORT_WRONG_END_POS when displaying class
- Before you import the master data, you must define the **Authorization Object** class. For more information, see [Defining Authorizations](#) in [SAP Integration Suite, Managed Gateway for Spend Management](#) and [SAP Business Network Installation Guide](#).

- Buyers on SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on versions from SP007 to SP010 must apply the SAP Note: [2952550](#) to export multiple email addresses for vendors with multiple contact persons.

 **Note**

When you import large amounts of master data from your procurement ERP system, ensure that you run the /ARBCIG_MASTER_DATA_EXPORT task in the background.

Limitations for Importing Master Data

The following limitations are applicable while importing the master data:

- SAP Ariba Procurement solutions integrated with SAP does not support a supplier location linked to multiple vendors.
- The legacy supplier export task is no longer supported. You must use the Export Supplier Data (Consolidated File) task.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the Incremental load operation for the enhanced payment terms master data.

For more limitations, see the specific sections for each type of incremental load export tasks in [Incremental Load Events \[page 60\]](#).

Maintain Field Maps

To import the master data from your SAP system to your SAP Ariba Procurement solutions system, a custom table ARBCIG_FIELDMAP is maintained to map the SAP and SAP Ariba Procurement solutions system field values. You can use the **Maintain Field Map for Master Data** activity in SPRO to maintain the ARBCIG_FIELDMAP table. See [Maintaining Field Map for Master Data and Catalog Upload Request in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Import Supplier Data

When you import the supplier data, SAP downloads the data in the `SupplierConsolidated.csv` for the following:

- Suppliers available in the LFA1 (Vendor Master Table)
- Suppliers that are not marked for deletion for a given purchase organization.
- Suppliers that do not have a centrally imposed purchasing block
- Suppliers that are not blocked for any function

Purchase Organization Supplier Combination

When you import the supplier data, SAP downloads the Purchase Organization-Supplier combination data in the `PurchaseOrgSupplierCombo.csv` for the following:

- Suppliers available in the LFM1 (Vendor Master Record Purchasing Organization Data)
- Suppliers that are not marked for deletion for a given purchase organization
- Suppliers that do not have a centrally imposed purchasing block

Supplier Location Data

You must maintain either the `SL_VENDOR_ADDRESS` parameter or `SL_PARTNER_TYPE` prefILTER while downloading the supplier location data. If you do not maintain one of these, it would result in an error. To maintain these parameters and prefilters, see [Importing Master Data for SAP Ariba Procurement Solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Here is how SAP Ariba Procurement solutions integrated with SAP processes the supplier location. For example, the following table displays the values associated to the ABC Supplier:

Supplier	Purchase Organization	Supplier Location 1	Supplier Location 2
ABC Supplier	1000	1004	1005
	3000	1006	1007

Case 1: When you import the supplier location data, SAP Ariba Procurement solutions integrated with SAP displays the Supplier Location for ABC supplier as 1004, 1005, 1006 and 1007 in the downloaded CSV file.

Case 2: When ABC Supplier is blocked for Purchase Organization 1000, SAP Ariba Procurement solutions integrated with SAP only displays the Supplier Location as 1006 and 1007 in the downloaded CSV file.

Enhancement for goods receipt-based invoice verification

The vendor master data export program has been enhanced to export the `GR-Based Invoice Verif` flag from the buyer's SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing. After you check the **GR-Based Invoice Verif** checkbox on the vendor purchasing view of SAP ERP or SAP S/4HANA and exports the data, the `GR-Based Invoice Verif` flag is exported as the `GRBasedInvoicingPreferred` flag in the `SupplierLocationConsolidated` file as part of supplier master data. The determination of this flag is based on the purchasing data at the purchase organizations level.

ⓘ Note

If you want to set the value of the `GRBasedInvoicingPreferred` flag in the `SupplierLocationConsolidated` file to `True`, you must set the flags to `True` in all supplier locations in purchase organizations.

The following scenarios explain how the GRBasedInvoicingPreferred flag is set in the SupplierLocationConsolidated file:

ⓘ Note

If the GRBasedInvoicingPreferred flag is set to **False** for a particular vendor in any of the purchase organizations, the GRBasedInvoicingPreferred flag is set to **False** by default in the SupplierLocationConsolidated file.

Scenario 1: Supplier extended to more than one purchase organization and connected to multiple supplier locations

A supplier (1000) has two supplier locations (2000 and 3000) as partner functions. The suppliers 1000, 2000, and 3000 are associated with two purchase organizations (0001 and 0002). In this case, the supplier locations 1000 and 2000 are set to **True** in the purchase organizations 0001 and 0002. However, the supplier location 3000 was set to **False** in both purchase organizations.

0001	0002
1000 - True	1000 - True
2000 – True	2000 – True
3000 - False	3000 - False

When you check the **GR-Based Inv. Verif** checkbox in the vendor purchasing view, the GRBasedInvoicingPreferred flag in the SupplierLocationConsolidated file is set to **True** for 1000 and 2000. However, for 3000, the GRBasedInvoicingPreferred flag is set to **False**.

Scenario 2: Supplier extended to more than one purchase organization and connected to a single supplier location

A supplier (1000) with a single, default supplier location as the partner function is associated with two purchase organizations (0001 and 0002). In this case, the supplier location 1000 is set to **True** in the purchase organizations 0001 and 0002.

0001	0002
1000 - True	1000 - True

When you check the **GR-Based Inv. Verif** checkbox in vendor purchasing view, the GRBasedInvoicingPreferred flag in the SupplierLocationConsolidated file is set to **True** for 1000.

For more information about goods receipt-based invoice verification, see [Goods Receipt-Based Invoice Verification in SAP Ariba Buying and Invoicing \[page 303\]](#).

Remittance Location Data

You can maintain filters while downloading remittance locations by specifying the following parameters:

- You can maintain both the `RL_VENDOR_ADDRESS` and `RL_PARTNER_TYPE` parameters. However, you must maintain at least one of the parameters while downloading the remittance information.
- You can download supplier as remittance location.

- When you want to download the supplier as the remittance location, you must maintain the `RL_VENDOR_ADDRESS` filter.
- When you maintain only the filter for the supplier location address `SL_VENDOR_ADDRESS` and do not maintain the supplier location and remittance location for the supplier, SAP Ariba Procurement solutions integrated with SAP considers the supplier as the supplier location and remittance location.
- When you maintain the supplier location but do not maintain the remittance location, SAP Ariba Procurement solutions integrated with SAP considers the supplier location as the remittance location.
- When you do not maintain filters for `RL_VENDOR_ADDRESS` and `RL_PARTNER_TYPE`, SAP Ariba Procurement solutions integrated with SAP displays an error stating that you have not maintained filters for the Remittance Location.

Note

When you import the master data for suppliers, SAP Integration Suite, managed gateway for spend management and SAP Business Network does not send the payment method information to the SAP Ariba Procurement solutions. As a result, the `RemittanceLocationConsolidated.csv` does not contain information on the payment method.

Limitations for Supplier Location and Remittance Location

When a supplier is either marked for Block or Delete and you run the master data for suppliers, SAP Ariba Procurement solutions integrated for SAP does not extract the supplier, supplier purchase org, supplier location, or remittance location .

However, if the supplier is not marked for Block or Delete and active, but the supplier location or remittance location is either marked for Block or Delete, SAP Ariba Procurement solutions integrated for SAP processes the information as follows:

- When you run the full load master data, SAP Ariba Procurement solutions integrated for SAP downloads the:
 - Supplier information
 - Supplier purchase org, supplier location, or remittance location in the `SupplierLocationConsolidated.csv` and `RemittanceLocationConsolidated.csv` files . This information is downloaded as the supplier/vendor is active and not marked for Block or Delete.
- When you run the incremental master data:
 - Downloads information on the supplier, supplier location, or remittance location that has been changed recently for the supplier. The changed information is only available in the first run of the incremental load in the `SupplierLocationConsolidated_Delete.csv` files and `RemittanceLocationConsolidated_Delete.csv` files.

For example, you have Supplier 1000, having Supplier Location 2000 and Remittance Location 3000.

Use Case 1

- Supplier 1000 is marked for Block or Delete.
- When running the full load master data, Supplier 1000, Supplier Location 2000, and Remittance Location 3000 are not available in the `SupplierLocationConsolidated.csv` and `RemittanceLocationConsolidated.csv` files.
- When you run the incremental load for suppliers, Supplier 1000 is available as blocked or deleted in the `SupplierConsolidated_Delete.csv` file.

Use Case 2

1. Supplier 1000 is not marked for Block or Delete.
2. Supplier Location 2000 or Remittance Location 3000 are marked for Block or Delete.
3. When running the full load master data, Supplier 1000 is extracted. However, Supplier Location 2000, and Remittance Location 3000 are also extracted and available in the `SupplierLocationConsolidated.csv` and `RemittanceLocationConsolidated.csv` files.

Note

Although SAP ERP supports the Mark for Block or Delete functionality, SAP Ariba Procurement solutions integrated for SAP does not support the Mark for Block or Delete functionality. When you run the master data for suppliers, this information about the supplier location or remittance location that has been blocked or deleted is still available in the .csv files.

Limitation for Supplier Event Update for Different Purchase Organizations

When a supplier is marked for deletion for a purchase organization, a change document is created for `VENDORDELETED` event in the table `ARBCIG_CHANGEDOC`. This change document is not created when the supplier is marked for subsequent deletion from other purchase organizations to which it may belong. This occurs as the supplier number is the only key to update the change documents for any Create, Change, or Delete event in the table `ARBCIG_CHANGEDOC`.

When the incremental load for supplier master data is exported from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions, information is recorded for the supplier deletion only for a single purchase organization.

For example, consider the use case where you have Supplier 1000 maintained for Purchase organization 0001 and Purchase organization 0002:

1. Supplier 1000 is marked for Block or Delete for the Purchase organization 0001.
2. Table `ARBCIG_CHANGEDOC` is updated with `VENDORDELETED` event for the Supplier 1000.
3. The Supplier 1000 is marked for Block or Delete for the Purchase organization 0002.
4. The existing record for the Supplier 1000 in the table `ARBCIG_CHANGEDOC` for the event `VENDORDELETED` is overwritten.
5. Master data export report is run for supplier incremental load.
6. Only a single deleted record for the Supplier 1000 is extracted in the file `PurchaseOrgSupplierCombo_Delete.csv`, in this case for the Purchase organization 0002.

Import Master Data to multi-ERP-Enabled Systems

Master data integration between SAP ERP and the SAP Ariba Procurement solutions supports export of master data from SAP ERP to the SAP Ariba Procurement solutions in multi-ERP-enabled environments. Buyers using the SAP Ariba Procurement solutions integrated with SAP ERP can enable master data integration for multi-ERP-enabled systems and specify the site, or realm, to which they want to export the master data.

To export master data to multi-ERP-enabled systems, on SAP ERP you must select **FPC ENABLED** option in the window **Export All Master Data Required for On-Demand Applications**. You can specify the name of the site to

which you want to export the master data in the **Site** field. In a multi-ERP-enabled environment, you can export the same set of master data to multiple sites.

You can export the following master data from SAP ERP to multi-ERP-enabled systems:

- Organizational Data
- Accounting Data
- Cross-application Configuration Data
- Supplier Related Data
- User Related Data

SAP ERP supports both full load and incremental load export of the master data.

Incremental Export of Master Data to multi-ERP-Enabled Systems

SAP ERP uses a combination of the following three variables to ensure that the incremental master data is available to all sites to which you want to do incremental exports:

- Site information
- Date and time stamp
- Retention Period

When you do an incremental export to a multi-ERP-enabled system, SAP ERP tags each of the records that you export with the date and time of the export and the name of the site to which you export the record. SAP ERP uses the site information and date and time stamp to identify the records to be exported when a new incremental export is triggered.

You can configure the `CHANGELOG_RETENTION_DAYS` to specify the number of days you want SAP ERP to retain the change records in the table `ARBCIG_CHANGEDOC`. When the configured retention period expires, SAP ERP clears the change log.

ⓘ Note

If you select **FPC ENABLED** option and do not maintain a value for `CHANGELOG_RETENTION_DAYS`, SAP ERP returns an error when you access the master data export program. To maintain the parameters, see [Maintaining Parameters for SAP Ariba Procurement Solutions](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Segregation of Supplier and User Master Data Elements for Specific Sites

When you export user and supplier master data to a multi-ERP-enabled system, you can segregate various elements of the user and supplier master data and send subsets or supersets based on the specific requirements. When you export user master data to a parent site, SAP ERP sends only those master data elements that are relevant for the parent site. If the realm is not marked as a parent realm, SAP ERP sends only those master data fields that are relevant for a child site. To maintain the realms, see [Configuring Connection Parameters](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

For example, the user master data sent to a parent site does not contain accounting information, whereas the user master data sent to a child site contains accounting information.

When you choose user master data for export in non-multi-ERP-enabled environment, SAP ERP sends both user and user group master data. However, in multi-ERP-enabled environments, you can choose to export either the user or the user group master data, or both.

Similarly, you can choose to segregate the supplier master data into various master data elements based on the specific requirements of the site to which you export the supplier master data. The supplier master data segregation options include supplier location, supplier purchase organization, and remittance location.

The parent and child differentiation applies only to user and supplier master data events. The following table lists the .CSV files generated for the user and supplier master data events and their availability to parent and child sites:

.CSV Filename	Applicable Site
UserConsolidated.csv	Parent and child sites. ① Note The UserConsolidated.csv file for the parent realm contains only a subset of master data elements.
SupplierConsolidated.csv	Parent and child sites ① Note The SupplierConsolidated.csv file for multi-ERP-enabled sites contains a new field, ImportCtrl.
GroupConsolidated.csv	Child sites
PurchaseOrgSupplierCombo.csv	Child sites
RemittanceLocationConsolidated.csv	Child sites
SupplierLocationConsolidated.csv	Child sites

Prerequisites for Importing Master Data to multi-ERP-Enabled Systems

- Configure Direct or Mediated Connectivity settings.
- Maintain supplier and remittance locations, and user profiles in SAP ERP. For more information, see [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- If you are upgrading from a non-multi-ERP system to Federated Process Control-based system, configure the **Maintain Date Time Stamp for Master Data** settings in SAP ERP. For more information, see [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Limitations for Importing Master Data to multi-ERP-Enabled Systems

- The remittance location data is linked to the supplier location. When you export remittance location, even if you choose only the remittance location for export, SAP ERP extracts the corresponding supplier location information too. When you export supplier location in the incremental load mode after exporting remittance location, the export does not contain those supplier location records that SAP ERP extracted while exporting remittance location master data.
- Remittance location option is not available for SAP Ariba Buying users.
- A system ID can be associated with only one realm ID. If you have multiple backend systems and all the backend systems use the same integration method as a part of their connection setup, you can use custom mapping to route documents from the same realm ID to the required backend system.

Supplier Incremental Load

The supplier incremental change transaction supports the following:

- Creating suppliers
 - Extending suppliers to certain purchase organizations
- Changing suppliers

ⓘ Note

When buyers change the payment terms in the **Payment transaction Accounting** view in SAP ERP, the changes are not considered for incremental load.

- Changes to the supplier address fields that have been configured

ⓘ Note

If the supplier email address was blank during full load, new email address is not captured by incremental load. Only updates to existing email address is captured by incremental load.

- Unblock for quality reasons
- Unblock selected purchase organizations
- Unblock all purchase organizations
- Undo the delete flags for all areas
- Create supplier location
- Create remittance location
- Delete supplier location
- Delete remittance location
- Delete or block suppliers
 - Block for quality reasons
 - Block selected purchase organizations
 - Block all purchase organizations
 - Delete flags for all areas

Note

To extract deleted suppliers, check only **All areas**. If you check **All areas**, **Selected company code**, and/or **Selected purchasing organization**, then the suppliers are extracted not as deleted suppliers but as changed suppliers.

Import Payment Terms Data

Payment terms indicate the negotiated discount between a buying organization and supplier for a specified number of days before payment is due. When you import the payment terms data, SAP Ariba Procurement solutions integrated with SAP imports only the Normal Payment Terms; the Installment Payment terms are excluded.

Buyers integrated with SAP Ariba Procurement solutions and SAP Integration Suite, managed gateway for spend management and SAP Business Network can additionally send the following information while importing payment terms master data from SAP ERP or SAP S/4HANA (on-premise):

- Day limit
- Baseline date calculation
 - Fixed day
 - Additional months
- Baseline date
- Payment terms
 - Fixed day (Discounted baseline)
 - Additional months (Discounted)

Buyers can run the master data program to import the payment terms containing details of the negotiated discounts between a buying organization and supplier for a specified number of days before the payment is due. Buyers can only choose the Full load operation using the Direct Connectivity integration method while importing the payment terms.

When buyers maintain a discount for the payment terms on the SAP ERP system, the discount that SAP Integration Suite, managed gateway for spend management and SAP Business Network calculates is based on the values you maintain in the **Fixed day** and **Additional months** fields.

Buyers can import master data for a payment term having different day limits with multiple discount percentage values and specific time periods. Before importing the payment terms master data, customers must maintain the parameter **ENHANCED_PAYMENT_TERMS**, to import the additional payment terms.

When the master data program runs, the program checks whether the parameter is maintained on the SAP ERP system. If you maintain the parameter, the master data program sends all the defined values for the day limit associated for the payment term to the SAP Ariba Procurement solutions.

When you maintain the **ENHANCED_PAYMENT_TERMS** parameter, SAP Ariba Procurement solutions processes the payment terms as follows:

- Calculates the payment terms and the day limit value. Buyers can have more than one payment term with different values for the day limit. Values must be in the range 0(zero)-31.
- If the day limit value contains a zero value, SAP Ariba Procurement solutions ignores the other values maintained for the days and months for the payment term.

If you leave the parameter **ENHANCED_PAYMENT_TERMS** field blank, the master data program does not check for the different day limits for the payment term.

ⓘ Note

This SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the integration of the enhanced payment terms. However, this integration will be fully functional as part of an upcoming SAP Ariba Application release.

Import User Data and User Group Data

ⓘ Note

Create user groups in the SAP Ariba Procurement solutions with the SAP ERP role names using the import event **Import User Group Mapping**.

When you export user data, only the information available in the transaction code SU01 is exported to the SAP Ariba Procurement solutions. The HR information for the cost center, company code and the locale is also exported. The locale is the concatenation of HR nationality plus the HR Language (info type 0002). SAP Ariba Procurement solutions integrated with SAP ERP does not import information about users maintained in the HR Info tables.

Import Input Tax Code and Withholding Tax Code Master Data

The buyers can import the input tax code and the withholding tax code master data from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions using SAP Integration Suite, managed gateway for spend management and SAP Business Network. As part of importing the tax code master data using this feature, three files in the .csv format - TaxComponent.csv, TaxCodeHeader.csv, and TaxCodeDetails.csv - are generated in SAP ERP or SAP S/4HANA.

ⓘ Note

This feature supports the import of the tax code master data in the full load mode only.

You must import the tax types and tax type mappings to SAP Ariba Procurement solutions manually.

ⓘ Note

When initiating the invoice transaction in SAP Ariba Procurement solutions, only the tax code and the tax type combination maintained both in the vendor master and the tax master for company code is defaulted for extracting the withholding tax. Also, you can import only the tax code with the base amount type as Net Amount or Gross Amount using this feature.

The following table lists the input and the output structures for the input and the withholding tax code integration:

Input Structure for Input Tax Code	Input Structure for Withholding Tax Code	Output Structure for Input and Withholding Tax Codes
ARBCIG_TAX_CODE_V1	ARBCIG_WITHT_COMMON	ARBCIG_WITHT_HEAD
ARBCIG_TAX_COMP		ARBCIG_WITHT_COMP
		ARBCIG_WITHT_DET

Prerequisites and Restrictions

The following are the prerequisites and restrictions for importing input tax code and withholding tax code master data:

Prerequisites

You must ensure that the associated tax type is linked to the company code in SAP for the withholding tax.

Restrictions

General restrictions:

- Incremental loads of master data are not supported.
- Language translation of tax codes is not supported.

Restrictions related to input tax code

- The **To** step and the calculation routine for a step in the tax procedure that is assigned to the input tax code are not supported.
- Any component in the tax procedure or the tax code linked to any additional country-specific configuration is not supported.
- Components (condition types) in input tax code with negative tax rates is not supported in SAP Ariba Procurement solutions.
- Multiple jurisdiction codes at the same level for certain tax code and country is not supported.
For example, if the tax jurisdiction codes 100000000, 200000000, and 300000000 are defined at the city level for a sample tax code I1 and country key, US, the tax components for one of the tax jurisdiction codes are integrated as part of this feature.

Restrictions related to withholding tax codes

- Only the extended withholding tax procedure is supported
- The tax types with base amount type as Quantity is not supported in SAP ERP or SAP S/4HANA. Only the tax types with base amount type as Net Amount and Gross Amount is supported

- Withholding tax codes with rates maintained as formula (scales) are not supported.
- The minimum and the maximum amount for the withholding tax is not supported.
- Importing master data related to the sequence-based withholding tax (the withholding tax based on the amount calculated for other withholding tax types) to SAP Ariba Procurement solutions is not supported if the withholding tax codes involved are different. This is because SAP Ariba Procurement solutions support the sequence-based withholding only if the withholding tax codes involved are the same.
For example, in the scenario explained in the following table, the withholding tax, B is calculated based on the withholding tax A. However, the withholding tax codes for A and B are different. The withholding tax code S2 and the country code DE of B has no common record with A. So, the import of the withholding tax B fails in SAP Ariba Procurement solutions.

Sequence	Component	AppliedOn	Tax Code	Tax Type	Country Key
A	S1W10001	Base Amount	S1	W1	DE
B	S1W20001	A	S2	W2	DE

Integrate Catalogs

Catalogs are text files that describe the products and services that a supplier offers. Suppliers can create catalogs for any product or service, regardless of how it is measured, priced, or delivered. Buying organizations search by company type, industry type, and product type to find catalogs that offer the product or service they need. They then download and import catalogs into their procurement application. Buyers can access catalogs through their procurement solutions to view what is offered and make purchases.

The SAP Integration Suite, managed gateway for spend management and SAP Business Network allows buyers to integrate catalog data from an SAP ERP to SAP Business Network seamlessly. Customers can extract the catalog data from the Purchase Information records and Materials Master records to create catalog items in a CIF file and send it to SAP Business Network and SAP Ariba Procurement solutions.

Creating a catalog file from an SAP ERP allows buyers to:

- Readily find items that are available and in stock directly from SAP ERP
- Prevent purchase orders from being canceled or put on hold due to unavailability of items
- Allow direct purchasing on SAP ERP
- Support creation of the CIF items in multiple languages

The catalog data extracted from the Purchase Information records and Materials Master records are saved as catalog items in a CIF file. The CIF file contains both mandatory and optional fields that suppliers can use while maintaining the catalog files.

With SAP Integration Suite, managed gateway for spend management and SAP Business Network, buyers can handle CIF catalog files in SAP Ariba Procurement solutions using the following scheduled tasks:

- The **Catalog Syndication** scheduled task runs every 2 hours. It picks up the CIF catalog files received from SAP Integration Suite, managed gateway for spend management and SAP Business Network and processes them.
- The **Catalog Syndication Delete Processed and Old Unprocessed Catalog Files** scheduled task runs every 24 hours. It reviews the CIF catalog files received from SAP Integration Suite, managed gateway for spend management and SAP Business Network. This task also deletes processed catalog files that are older than 24 hours and unprocessed catalog files that are older than 5 days.

Buyers can integrate the catalog data using the following methods:

- Full and incremental load
- Mediated Connectivity

Prerequisites and Limitations

Prerequisites

To upload the catalog CIF file for the full and incremental load through the mediated connectivity, buyers must do the following:

- Ensure that the supplier for that you are uploading the catalog must exist on SAP Business Network and SAP Ariba Procurement solutions. The supplier must have an active trading relationship with the buyer. For more information about creating a buyer-supplier relationship, see the *SAP Business Network Integration Guide*.
- Customers must validate and publish the catalog sent from SAP ERP from their SAP Business Network account. They must also validate the catalog based on the catalog rules specified on SAP Ariba Procurement solutions.
- Ensure that the commodity codes and unit of measure that you maintain on SAP ERP must also exist on SAP Business Network and SAP Ariba Procurement solutions.
- Buyers must ensure that they enable the option, **Allow multi-supplier CIF** and set the parameter `System.Catalog.Network.DefaultMSCif` on their SAP Ariba Procurement solutions to support a multi-supplier catalog CIF file from SAP Business Network. For information about multi-supplier CIF catalogs in SAP Ariba Procurement solutions, see [Incremental and Multi-Supplier CIF Catalogs in Customer Catalog Administration Guide for Buyers](#).
- Ensure that you define authorizations for running SAP Business Network transactions.
- To extract the commodity code maintained in the characteristic value of a class that belongs to a specific class type in the Classification view of the Material Master record, buyers must implement the SAP Note 65124. This is required to write the change documents for the classification data for a material master record.
- Ensure that the file size of the catalog CIF file does not exceed the maximum file size supported by SAP Business Network. SAP ERP does not validate or restrict the file size of the catalog file based on the file size required by SAP Business Network.
- If you are a customer using only SAP Ariba Procurement solutions and want to integrate catalogs, ensure that you do the following:
 - Set up the interface to enable Document Status Update for only the inbound transaction. To do this, run the transaction code, SPRO and go to ► **Integration with Other SAP Components** ► **Managed Gateway for Spend&Network for Buyer** ► **SAP Business Network Integration** ► **General Settings** ► **Setup the Interface** ► **Configure the Connections to Send Messages** . Choose **Document Status Update** for only the inbound transactions.
For more information, see [Setting Up the Interface in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- On the **Interface Setup Program for Ariba Procurement** page, ensure that you select the **Master Data** and the **Catalog Status Response** check boxes to import catalog data directly from the ERP system to SAP Ariba Procurement solutions without routing it through SAP Business Network.

Limitations

The **Schedule Job for Catalog Upload Request** does not support the following:

- Extracting images for catalog line items.
- The **Schedule Job for Catalog Upload Request** extracts the Valuated Unrestricted-Use Stock at the plant-level by totaling up the quantity available at the storage location of the plant. The **Schedule Job for Catalog Upload Request** does not track the change made to the quantity.
- When you create a purchase information record at a purchasing organization level for a material, and the material is also associated to a plant, you must ensure that you send the information to SAP Business Network before you again extend the same purchase information record of the associated purchasing organization to the plant. If the information has been previously staged on SAP ERP, and the same purchase information record is again extended to the plant, the newly extended information is not sent to SAP Business Network. For example, you have created a purchase information record at the purchasing organization level (3000) for Material ABC having a Unit Price of \$20 and lead time as 2, and the ABC material is also associated to the plant 3000. This information is stored in the table ARBCIG_DOCCHANGE on the SAP ERP system, but not yet sent to SAP Business Network.

Now, when you make a change and extend the same purchase information record having the purchasing organization level (3000) to the plant 3000, the **Schedule Job for Catalog Upload Request** only sends Unit Price of \$20 and lead time as 2 that was previously staged in the ARBCIG_DOCCHANGE table on the SAP ERP system. The newly extended plant information is not staged in the ARBCIG_DOCCHANGE table.

Use the Catalog Export Program

Buyers can create variants to run the **Schedule Job for Catalog Upload Request** multiple times for the full and incremental load. The variants can have different catalog filters and options that are required while running the **Schedule Job for Catalog Upload Request**. For more information about **Schedule Job for Catalog Upload Request** or to manually import catalog master data, see [Scheduling the Job for Catalog Upload Requests](#) and [Importing Master Data for Catalogs in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

About Processing Purchase Information Records and Material Master Records

Buyers can use the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program to send catalog information to SAP Ariba Procurement solutions. The ARBCIG_BUYER_CATALOG_EXPORT program forwards catalog information to SAP Business Network before sending it to SAP Ariba Procurement solutions. In comparison, the ARBCIG_BUYER_CATALOG_REPORT program sends catalog information directly to SAP Ariba Procurement solutions, which improves system performance.

The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program processes the purchase information records and the material master records while extracting the data to create catalog items in the CIF file. While extracting data for an incremental load, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program records all changes done to existing data for material master and purchase info records. When these records are flagged for deletion on the SAP ERP system, these changes are recorded in the catalog CIF file. The column **Delete** in the CIF file contains the value **T** (True) to indicate that there has been a change to the catalog item on the SAP ERP system.

The following describes how the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program processes the purchase information records and the material master records while extracting the data to create catalog item:

- **Applicable to Full and Incremental Load**

- The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program extracts catalog items only if the material has a valid purchase information record and the material has an associated plant. If you have a material only associated to a plant, and you create a purchase information record only at the header-level, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program does not consider this purchase information record for the catalog file.
- The **Valid From** date for the master record is taken from the **Purchasing View** on the SAP ERP system. The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program considers this date only when the plant-specific material has the following statuses:
 - **01** (Blocked for procurement/where house) OR
 - **BP** (Blocked for purchasing) OR
 - **OB** (Obsolete materials)

When the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program runs, the program checks the status for the plant-specific material and then the value in the **Valid From** date. If the **Valid From** date is within the date specified in this field, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program extracts the information for the master record. If the **Valid From** date is an earlier date on which the program runs, the program does not extract the master record. The program pulls the material master record only till the date specified in **Valid From** field. For example, if the date in the **Valid From** field is 10 October, 2017, the program considers the material valid up to 10 October, 2017.

- The catalog export program considers the material master record invalid when the **From date** field has a blank value or stores a date that is earlier than the date on which the record was previously extracted. And the **Purchasing View** tab for the material has the following plant-specific material status:
 - **01** (Blocked for procurement/where house) OR
 - **BP** (Blocked for purchasing) OR
 - **OB** (obsolete materials)

 **Note**

When a Full load is run, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program does not include the catalog item in the CIF file if the **From date** is invalid and the **Purchasing View** tab for the material has a plant-specific material status as 01, BP, or OB.

- If there is a purchase information record only at the purchase organization level, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program extracts the purchase information record for all the plants associated to the material in the CIF catalog.
- If the purchase information record information for a material is available at only the plant and purchasing organization level, the catalog data extracted contains the purchase information record information only for the plant that is associated to the material.
- The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program does not extract the catalog item if the purchase information record is having only a material group-level.

- The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program does not extract catalog items for a full load if the vendor material number (Supplier Part ID) maintained for a purchase information record is unavailable.
- When you associate a purchase information record to a purchasing organization and make changes the existing vendor material number (Supplier Part ID), the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program considers only the newly entered value for the vendor material number and discards the earlier value you changed.
- When you create a purchase information record for a material, but do not specify a vendor material number, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program does not consider the purchase information record as a catalog item while running the incremental load.
- If you mark a purchase information record or material master record for deletion on the SAP ERP system and run the incremental load, the catalog item for the purchase information record or material master record is marked for deletion on SAP Ariba Procurement solutions system. However, if you make changes to the same deleted catalog item on the SAP ERP system and run the incremental load, the deleted catalog item is again sent to SAP Ariba Procurement solutions. But this fails on SAP Ariba Procurement solutions as the catalog item has already been deleted.
- Purchase information records and Materials master records that have records marked for block or delete. While running an incremental load, any purchase information records and materials master records marked for block or delete is processed as changes and the corresponding item in the CIF file is marked as **T** in the **Delete** column.
- The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program extracts purchase information records and material master records that have vendors marked for block or delete. The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program does not filter the vendor marked for block or delete.
- If you delete the language for the material description, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program marks the description for the material item for deletion and sends the value "Deleted Language Record" in the **Item Description** field in the CIF file. This **Delete** column for the catalog item contains "T" in the CIF file. As a result, this item is deleted from SAP Business Network and SAP Ariba Procurement solutions. The **Item Description** field is a mandatory field and if this is marked for delete, SAP Business Network automatically deletes the catalog item.
- The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program processes the following values that are stored in the **Supplier Part Auxiliary ID** field:
 - Language for the material master description
 - Material Plant
 - Purchase organization
 - Purchase Info category

The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program uses these values to uniquely identify the material master record when the material master record is assigned to more than one plant, purchase info category, or purchase organization and available in multiple languages. The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program creates a unique catalog item for each material master record associated to a plant, purchase organization, purchase info category, or a specific language.

- **Applicable to Incremental Load**

- The **Flag for deletion** option on the SAP ERP system is supported for the following levels:
 - Material or Plant level for material master records
 - Complete Info Record or purchasing organization level for purchase information records

- When a buyer changes the Vendor Material number (Supplier Part Id) of a valid purchase information record for a material, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program considers the previously entered value of the vendor material number (Supplier Part ID) in the catalog CIF file. This catalog item with the previously entered value is marked as "T" in the **Delete** column of the CIF file. The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program adds a new entry for the vendor material number (Supplier Part id) of a valid purchase information record for a material master.
- Purchase information records that contains any changes to the vendor material number (Supplier Part ID) are still considered records with changes. The first change that you make to the vendor material number is always recorded as marked for deletion and the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program does not consider any further changes.
- While running the incremental load, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program considers the changed and deleted catalog items to already exist in the SAP Ariba Procurement solutions system. The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program adds a new entry for the newly changed catalog item.
- The ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program marks the catalog item as "T" in the **Delete** column of the CIF file if the **From date** date is blank and the **Purchasing View** tab for the material has a plant-specific material status as **01, BP, or OB**.
- When you make changes to a specific field for a material record, and then make changes to the vendor material number for the same material record, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program does not consider the changes to the vendor material number are not flagged for deletion when you run the incremental load.

For example,

- You make a change to a description field for a material record. This change is staged in the change table on SAP ERP system. This information is also not yet sent to SAP Business Network.
- For the same material record, you make a change to the vendor material number.
- You run the incremental load.

Now, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program processes the change as follows:

If the catalog item for the material record is already available on SAP Business Network, the newly changed vendor material number is added as a new catalog item in the CIF file. This **Delete** column for this catalog item does not store the "T" value.

Note

When you need to make changes to the vendor material number, ensure that you always run the incremental load first and then make the change to the vendor material number.

- When you extend a material master to a new Plant, ensure that you do not delete the language for the material description. If the language is deleted before you save the material master, the ARBCIG_BUYER_CATALOG_EXPORT program or the ARBCIG_BUYER_CATALOG_REPORT program marks the language for the newly created Plant for deletion. When the record is sent as a catalog item to SAP Business Network, this catalog item for the material record fails.

Upload Catalog Changes Using the Incremental Load

New values or changes done in the purchase information record or the material master records can be uploaded on SAP Business Network and SAP Ariba Procurement solutions. Buyers must run the incremental load to upload the

new values to an existing catalog .CIF file. Buyers can specify a date period while running the incremental load to download data that has been changed or newly during the date period.

ⓘ Note

You must ensure that you use the existing catalog subscription name for each incremental load you run for an existing catalog.

Maintain Catalog Fields

To maintain the SAP Ariba field names in the SAP ERP system, SAP Ariba Account Administrator must first create these custom fields with the required SAP Ariba field name on their SAP Ariba Procurement solutions. These new custom SAP Ariba fields can be mapped to the SAP fields in the ARBCIG_FIELDMAP table using the **Maintain Field Map for Master Data and Catalog Upload Request** activity on SPRO.

- If you add catalog fields to the customized RFC structure, add the field, its structure, and the corresponding SAP Ariba field name using the **Maintain Field Map for Master Data and Catalog Upload Request** activity to have a preferred column name in the CIF files.
- The CIF file created on the ERP system contains additional fields. You must maintain the SAP Ariba field names for the following fields using the **Maintain Field Map for Master Data and Catalog Upload Request** activity :

Field Name	Description
MATNR	SAP ERP Material Number
WERKS	Plant
EKORG	Purchase Organization
ESOKZ	Purchase Info Category. For example, Standard, Subcontracting, Pipeline and Consignment.
LABST	Valuated Unrestricted-Use Stock
INFNR	Purchase Information Record

Incremental Load Events

You can run the Incremental change transactions directly while running the master data events to pick up the new, updated, or deleted changes.

ⓘ Note

When importing master data using incremental load, you can send master data, excluding the material master, to only one realm. After a successful extraction, the system removes the entry from the ARBCIG_CHANGEDOC table.

You can run the incremental change transactions for the following master data tasks:

- User and User Group information

For more information, see [User and User Group Incremental Load \[page 61\]](#).

- Supplier-related information that includes supplier location and supplier remittance location

For more information, see [Supplier Incremental Load \[page 50\]](#).

- General Ledger

For more information, see [General Ledger Incremental Load \[page 62\]](#).

- Internal Order and Company Code

For more information, see [Internal Order Incremental Load \[page 63\]](#).

- Cost Center

For more information, see [Cost Center Incremental Load \[page 63\]](#).

- WBS Element and Company Code

For more information, see [WBS Element Incremental Load \[page 64\]](#).

- Assets

For more information, see [Asset Incremental Load \[page 64\]](#).

The SAP Ariba Procurement solutions integrated with SAP ERP supports the following incremental change transactions operations for the master data export tasks:

Object	Create	Change	Block	Unblock	Lock	Unlock	Delete	Undelete
Supplier	Y	Y	Y	Y	N/A	N/A	Y	Y
User	Y	Y	N/A	N/A	Y	Y	Y	N
Asset	Y	Y	Y	Y	N/A	N/A	Y	N
Cost Center	Y	Y	N/A	N/A	Y	Y	N	N
General Ledger	Y	Y	Y	Y	N/A	N/A	Y	Y
WBS	Y	Y	N/A	N/A	Y	Y	Y	Y
Internal Order	Y	Y	N/A	N/A	Y	Y	Y	Y

User and User Group Incremental Load

The user and user group incremental change transaction supports the following:

- Changes to users maintained in SU01
- Changes to users HR data in PA transactions

Supported operations for change of users in SU01:

- Lock users
- Delete users permanently

- Change validity dates
- Add or delete SAP Ariba groups
- Change addresses

Supported operations for change of users HR data:

- Create info type PA0105 (communications) with the user type as user ID, lock of PA0105, validity changes of PA0105
- Changes to organizational assignment PA0001
- Changes to personal data PA0002

The following are not supported for Users in SU01:

- The incremental changes for the time zone in the **Defaults** tab in the transaction code SU01 are not supported as there no changes logged in SAP ERP.

The incremental changes for the **Parameter** tab in SU01 is not supported as there are no changes logged in SAP ERP. The SAP Ariba Procurement solutions integrated with SAP ERP extracts only the Purchase Org., Purchase Group, Currency from the **Parameters** tab. In the **Parameter** tab, changes done to these fields are not recorded and hence we do not support an incremental load.

The following are not supported for the HR-PA transactions:

- SAP ERP does not support the delete, change, lock and change validity dates. Hence the SAP Ariba Procurement solutions integrated with SAP ERP does not support the delete, lock, or validity changes of 0001 (Organization) and 0002 (Personal) info types.
- The delete of infotype 0105 (Communications) does not trigger any changes.
- Changes to the Organizational, Communication, or Personal infotypes are recorded only if there is a user to the HR link (Infotype 0105) (valid or locked).
- No field restrictions are available in the Organizational, Communication, or Personal infotypes. The SAP Ariba Procurement solutions integrated with SAP ERP records all field changes.
- If the infotype 0105 (Communications) is locked, deleted, or not valid, no HR details is pulled in either the incremental or full load export task.
- Any addition or deletion to user groups in the SU01 **Role** tab is only maintained in SAP ERP.
- When user information has been changed, deleted or locked, the SAP Ariba Procurement solutions integrated with SAP ERP does not validate if the user is already available in the SAP Ariba Procurement solutions.
- If a user is locked in SAP ERP and you export the user, the user is removed from the SAP Ariba Procurement solutions. However, the user that is locked still remains in SAP ERP. If you make changes to the locked user in SAP ERP and then run the incremental load, the SAP Ariba Procurement solutions errors out while exporting the locked user to the SAP Ariba Procurement solutions. This is because the locked user does not exist in the SAP Ariba Procurement solutions.
- Standalone changes made to either the cost center or company code of a user using the PPO1 transaction is not supported for incremental load export task.

General Ledger Incremental Load

The general ledger incremental change transaction supports the following:

- Creating a new general ledger

- Changing an existing general ledger
- Blocking an existing general ledger
- Deleting an existing general ledger

The block general ledger supports the following operations:

- Block in chart of accounts
 - Block for creation
 - Block for posting
 - Block for planning
- Block in company code
 - Block for posting

The delete general ledger supports the following operations:

- Deletion flag chart of accounts
 - Mark for deletion
- Deletion flag in company code
 - Mark for deletion

All the created and changed events are stored in the `GeneralLedger.csv` file. The `GeneralLedger_Delete.csv` file stores all the deleted changes. The field restrictions for the change and block events track only the changes to the fields; all other changes are ignored.

Internal Order Incremental Load

The internal order incremental change transaction supports the following:

- Creating an internal order
- Changing an existing internal order
- Locking an existing internal order
- Deleting an internal order

All the created and changed assets are stored in the `InternalOrder.csv` and `CompanyCodeIOCombo.csv` files. The `InternalOrder_Delete.csv` and `CompanyCodeIOCombo_Delete.csv` files store all the locked and deleted changes.

Cost Center Incremental Load

The cost center change transaction supports the following:

- Creating a new cost center
- Changing an existing cost center
- Locking an existing cost center

Note

You cannot run the incremental delete load for cost centers.

All the created and changed information for cost centers is stored in the CostCenter.csv file. The CostCenter_Delete.csv file stores all the deleted changes. The field restrictions for the change and block events track only the changes to the fields; all other changes are ignored.

WBS Element Incremental Load

The WBS incremental change transaction supports the following:

- Creating a WBS element
- Changing a WBS element
- Deleting a WBS element

By default, the timestamp changes in the WBS element are not considered for incremental export. You can enable the **WBS_USE_CPD_UPDAT** parameter to extract master data based on the timestamp value stored in the **CPD_UPDAT** field in the PRPS table.

The **CPD_UPDAT** field stores the timestamp value only when the PFP business function related to CPM (Commercial Project Management) is switched on. For more information about maintaining the timestamp value, see the Knowledge Base Article [2825940](#).

If the PFP business function related to CPM is not switched on, the timestamp value will not be stored in the **CPD_UPDAT** field. In such cases, disable the **WBS_USE_CPD_UPDAT** parameter so that the data is extracted based on the date value available in the **AEDAT** and **ERDAT** fields in the PRPS table.

To configure the **WBS_USE_CPD_UPDAT** parameter, see [Maintaining Parameters for SAP Ariba Procurement Solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#)

Asset Incremental Load

The asset incremental change transaction supports the following:

- Creating a new asset
- Changing an existing asset
- Blocking an existing asset
- Deleting an existing asset

Note

Physical delete of master data for an exisiting asset is not possible.

The **ARBCIG_CHANGEDOC** table records all the changes for these transactions. All the created and changed assets are stored in the **Asset .csv** file. The **Asset_Delete.csv** file stores all the deleted changes.

The SAP Ariba Procurement solutions integrated with SAP ERP tracks only the changes to the fields in the change and block event; all other changes are ignored. The field restrictions for the change and block events track only the changes to the fields; all other changes are ignored.

Master Data Integration Events

SAP Ariba Procurement solutions imports master data from CSV files.

This section has the following topics:

- [Checking Output CSV Files \[page 65\]](#)
- [About Importing Data in Multiple Languages \[page 67\]](#)

ⓘ Note

The ARBCIG_MASTER_DATA_EXPORT program displays the text for the fields only in English. Ensure that you sign in to the SAP ERP system in the English (EN) language.

Integrate Master Data Using the User Interface

The ARBCIG_MASTER_DATA_EXPORT program has a user interface that provides different options to choose either a full or incremental load. For more information, see [Importing Master Data from SAP ERP to SAP Ariba Procurement Solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Related Information

[About Importing Data in Multiple Languages \[page 67\]](#)

Check Output CSV Files

When the program ARBCIG_MASTER_DATA_EXPORT has run successfully, you can check that the CSV files are generated as expected and that they are available at the location configured in TEMP_DIRECTORY.

The following table lists the SAP remote function calls (RFCs) and the CSV files they generate for each data import task.

RFC Used	Generated CSV File
ARBCIG_COMPANY_CODE_EXPORT	CompanyCode.csv
ARBCIG_PLANT_EXPORT	Plant.csv
ARBCIG_PURCHASE_ORG_EXPORT	PurchaseOrg.csv
ARBCIG_PURCHASE_GROUP_EXPORT	PurchaseGroup.csv
ARBCIG_PLANT_PURCHASE_EXPORT	PlantPurchaseOrgCombo.csv
ARBCIG_ASSET_EXPORT	Asset.csv

RFC Used	Generated CSV File
ARBCIG_COST_CENTER_EXPORT	CostCenter.csv
ARBCIG_GENERAL_LEDGER_EXPORT	GeneralLedger.csv
ARBCIG_INTERNAL_ORDER_EXPORT	InternalOrder.csv
ARBCIG_WBS_EXPORT	WBSElement.csv
ARBCIG_ACCOUNT_CATEGORY_EXPORT	AccountCategory.csv
ARBCIG_ACCOUNT_FIELD_EXPORT	AccCategoryFieldStatus Combo.csv
ARBCIG_INTERNAL_ORDER_EXPORT	CompanyCodeIOCombo.csv
ARBCIG_WBS_EXPORT	CompanyCodeWBSCombo.csv
ARBCIG_MATERIAL_GROUP_EXPORT	ERPCommodityCode.csv
ARBCIG_CURRENCY_CONVERT_EXPORT	CurrencyConversion Rate.csv

Note

The file contains the converted timezone ID in the standard format (UTC), and appears as Day Mon DD hh:mm:ss UTC YYYY.

ARBCIG_VENDOR_EXPORT	PurchaseOrgSupplierCombo.csv SupplierConsolidated.csv SupplierLocationConsolidated.csv RemittanceLocationConsolidated.csv
ARBCIG_SUPPLIERLOCATION_EXPORT	SupplierLocationConsolidated.csv
ARBCIG_PAYMENTTERM_EXPORT	PaymentTermsConsolidated.csv
ARBCIG_REMITTANCE_LOCATION_EXPORT	RemittanceLocationConsolidatedExport.csv
ARBCIG_USER_EXPORT	UserConsolidated.csv
ARBCIG_USER_GROUP_EXPORT	GroupConsolidated.csv
ARBCIG_TAX_CODE_EXPORT	TaxCode.csv

The following table lists the class used and the CSV files they generate for each Funds Management data import task.

Class Used	Generated CSV File
CL_ARBCIG_BP_EXPORT	BudgetPeriod.csv
CL_ARBCIG_COMMITMENT_EXPORT	Commit.csv
CL_ARBCIG_FM_AREA_EXPORT	FMArea.csv
CL_ARBCIG_GRANT_EXPORT	Grantee.csv

Class Used	Generated CSV File
CL_ARBCIG_FUNCTAREA_EXPORT	FunctionalArea.csv
CL_ARBCIG_FUNDS_CENTER_EXPORT	FundsCenter.csv
CL_ARBCIG_FUND_EXPORT	Fund.csv
CL_ARBCIG_EARMARKED_EXPORT	<ul style="list-style-type: none"> • EarmarkedFundsDocuemt.csv • EarmarkedFundsItem.csv

Buyers can run the transaction code SLG1 to view all messages in the application log in SAP ERP.

About Importing Data in Multiple Languages

The ARBCIG_MASTER_DATA_LANG_EXPORT program provides options to download translations of the following master data:

RFC Used	Generated CSV File
ARBCIG_GENRAL_LDGR_NAMS_EXPORT	GeneralLedgerLang.csv
ARBCIG_ACCOUNT_CAT_NAMS_EXPORT	AccountCategoryLang.csv
ARBCIG_PAYMENT_TERMNAMS_EXPORT	PaymentTermsLang.csv
ARBCIG_TAX_CODE_NAMES_EXPORT	TaxCodeLang.csv
ARBCIG_MATERAL_GRP_NAMS_EXPORT	CommodityCodeLang.csv
ARBCIG_COST_CENTER_NAMS_EXPORT	CostCenterLang.csv

Table 1: Funds Management Master Data

Class Used	Generated CSV File
CL_ARBCIG_BP_LANG_EXPORT	BudgetPeriod.csv
CL_ARBCIG_COMMIT_LANG_EXPORT	Commit.csv
CL_ARBCIG_FMAREA_LANG_EXPORT	FMArea.csv
CL_ARBCIG_GRANT_LANG_EXPORT	Grantee.csv
CL_ARBCIG_FUNCTAREA_LANG_EXPRT	FunctionalArea.csv
CL_ARBCIG_FUNDS_CTR_LANG_EXPRT	FundsCenter.csv
CL_ARBCIG_FUND_LANG_EXPORT	Fund.csv

You can run the following Master Data Language Export tasks directly using the program ARBCIG_MASTER_DATA_LANG_EXPORT:

- **Account Category Language**
- **General Ledger Language**
- **TaxCode Language**

- Cost Center Language
- ERPCommodityCode Language
- Payment Terms Language
- Funds Management Data Language

Integrate Master Data Using the Direct Connectivity Integration Method from SAP ERP

Prerequisites

- The file path to download files must be maintained in the parameter `TEMP_DIRECTORY` before you export the master data through the Direct Connectivity Integration method. For more information, see [Maintaining Parameters to Import Master Data for More than One SAP Ariba Solution in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Before you export the master data, you must define the Authorization Object class. For more information, see [Defining Authorizations in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- Ensure that you maintain the parameters on your SAP ERP in the **Connection Parameters for Master Data** activity.
- Ensure that you install the client certificates before running the master data.

Limitations When Integrating Master Data Directly from SAP ERP

- When you run the master data tasks, you cannot do the following:
 - Use the **NTLM** and **digest proxyAuthMod** authentication methods while exporting master data.
 - Send any email notifications when the master data integration fails. Buyers can run the transaction code **SLG1** to view all messages in the application log in SAP ERP.

Integrate Master Data Using the Mediated Connectivity Integration Method

Buyers using the SAP Ariba Procurement solutions integrated with SAP ERP can integrate master data directly from an SAP ERP system to the SAP Ariba Procurement solutions system seamlessly through the mediated connectivity integration method.

Mediated connectivity provides enhanced security while transferring master data from an SAP ERP system to an SAP Ariba Procurement solutions system. SAP Ariba downloads master data from an SAP ERP to the SAP Ariba Procurement solutions through SAP Process Integration using SOAP messages.

To integrate master data, a buyer can use either client certificates or shared secret authentication to connect to the SAP Ariba Procurement solutions through SAP Process Integration.

If you are using the client certificate, the SAP Process Integration keystore stores the certificates and keys that you create in SAP Process Integration. You can create a view to group these certificates and keys based on views.

If you are using the shared secret-based authentication, you must configure the shared secret in the Communication Channel of SAP Process Integration.

ⓘ Note

Buyer using the SAP Ariba Procurement solutions can also choose to integrate master data from an SAP ERP to the SAP Ariba Procurement solutions directly. To do this, the administrator must configure SOAMANAGER.

For information on integrating master data using the direct connectivity integration method, see [Integrate Master Data Using the Direct Connectivity Integration Method from SAP ERP \[page 68\]](#).

Prerequisites and Limitations

- Install the latest SAP Ariba procurement transports and TPZ files.
- Maintain the table entries.

ⓘ Note

If you have configured logical port for the realms to which you export master data, you need to delete or deactivate the logical port configuration.

- Configure SSL client certificate for HTTPS connection.
- Specify the system ID of SAP ERP on the **Service Manager** **Site Manager** **Customer Site** **Master Data Manager** **External System Configuration** **Create External System** window of the SAP Ariba Procurement solutions.
- Based on the security model you choose, configure one of the following:
 - For Shared Secret-based authentication, configure the Shared Secret settings such as the user name and password on the **Service Manager** **Site Manager** **Customer Site** **Integration Manager** **Integration Toolkit Security** window of the SAP Ariba application.
 - For client certificate-based authentication, install the client certificates and configure the certificate settings at the **Service Manager** **Site Manager** **Customer Site** **Integration Manager** **Integration Toolkit Security** window of the SAP Ariba application.

Requirements for multi-ERP-Enabled Systems

1. Maintain a parent realm and a child realm and create a business system each for the parent and child realms.
2. Create a communication channel each for the parent and child realms based on the same communication channel template. Set the target URL of the communication channel for the child realm to the child realm name and the target URL of the communication channel for the parent realm to the parent realm name.
3. Create the integration scenario and specify the communication channels that you created for the parent and child realm.

4. Specify receiver determination condition for the integration scenario.

Limitations

Mediated Connectivity has the following limitations:

- Administrators do not get email notifications when an error occurs during the master data integration.
- Administrators can only view the log files in the runtime monitor of the SAP ERP and SAP Process Integration.
- The log files do not store a record of all the error conditions in the SLGI.

Import Master Data for SAP Ariba Sourcing and SAP Ariba Contracts

This section provides information about importing master data for SAP Ariba Sourcing and SAP Ariba Contracts:

ⓘ Note

When you use SAP S/4HANA, on-premise edition 2020 with SAP Ariba Contracts or SAP Ariba strategic sourcing solutions, ensure that you apply the SAP Note [2945140](#).

[Types of Master Data \[page 70\]](#)

[Prerequisites \[page 74\]](#)

[Limitations \[page 74\]](#)

[About Integrating SAP Retail with SAP Ariba Strategic Sourcing Suite \[page 75\]](#)

Types of Master Data

SAP ERP buyers integrated with SAP Ariba Sourcing or SAP Ariba Contracts can import the following master data:

- Organizational data
 - Plant
 - PlantPurchaseOrg
 - CompanyCode
 - PurchaseOrg
 - PurchaseGroup
- Cross application configuration data
 - Payment Terms
 - Incoterms
- Material master

- Material master
- Item category
- ERPCCommodityCode
- Purchase Info Record (PIR)

When buyers import the master data for the first time, SAP Ariba recommends that you choose the Full load mode. Buyers can use the incremental load for subsequent run to import master data records that have been added, modified, or deleted since the last master data import event.

SAP Ariba processes the master data records as follows:

- When buyers import the spend data for the first time, SAP Ariba imports all the data from the SAP ERP to the SAP Ariba Sourcing. On a subsequent run using the Full Load option, SAP Ariba only imports the newly added data and updates the changed values for the existing data.
- When buyers run the incremental load event, SAP Ariba only imports the newly added data, updates the changed values for the existing data, and deletes the data no longer required.

When buyers export material master data, the master data includes material master plant associated data, material master language associated data. When buyers import cross application master data for Incoterms, the master data includes Incoterms language associated data.

→ Tip

Material master data contains large volume of information. For best performance, always set filters that specify the criteria based on which you can import smaller subsets.

[Material Master Data \[page 71\]](#)

[Purchase Info Records \[page 72\]](#)

Material Master Data

Buyers using the SAP Ariba Sourcing and SAP Ariba Contracts applications integrated with SAP ERP can import master data from SAP ERP to SAP Ariba Sourcing and SAP Ariba Contracts. Master data that buyers can import includes organizational data, cross application data, and material master data.

When buyers using SAP Ariba Sourcing integrated with SAP ERP import material master data, they can receive classification data such as class types, class names, and characteristics along with the material master data that they import to SAP Ariba Sourcing from SAP ERP. The classification value allows buyers to categorize materials based on their characteristics. Classification data also enables buyers to search and find materials more easily.

When buyers import material master data from SAP ERP to SAP Ariba Sourcing, SAP ERP provides the classification information in the `ItemMasterClassificationInfo.csv` file. `ItemMasterClassificationInfo.csv` contains class and classification information along with Classification sequence and material number.

Classification sequence is a combination of the internal object number, class type, class name, and characteristic value.

ⓘ Note

Implement the SAP Note [65124](#) -Classification Change Documents for material classification for multiple class types.

To extract material classification data, you need to maintain the following filters in the table ARBCIG_TVARV:

- CLASS_TYPE
- CLASS

Manufacturer Parts List

When buyers using SAP Ariba Sourcing integrated with SAP ERP import material master data from SAP ERP to SAP Ariba Sourcing, SAP ERP also sends the Manufacturer Parts List to SAP Ariba Sourcing.

The Manufacturer Parts List is similar to the Approved Manufacturer Parts List (AMPL) in SAP ERP. Buyers can use the Manufacturer Parts List to identify the manufacturers for materials of type manufacturer parts (HERS in SAP) and the manufacturer part numbers and the corresponding internal part numbers.

The material master data event sends the following additional files from SAP ERP to SAP Ariba Sourcing:

- ItemMasterAMI.csv
- ItemMasterAMLDscriptionLang.csv
- ItemMasterAMI_delete.csv
- ItemMasterAMLDscriptionLang_delete.csv

Buyers can specify the material number range as input for reprocessing of failed or missed entries when performing incremental upload using SAP Menu > Master Data > Reports > Master Data Report Integration. The DateStamp is not updated during this incremental upload and the change log table ARBCIG_CHANGEDOC is not cleared.

Note

ItemMasterAMI_delete.csv and ItemMasterAMLDscriptionLang_delete.csv are available only when you do an incremental export.

Purchase Info Records

Integration with SAP Ariba Strategic Sourcing Suite enables SAP ERP or SAP S/4HANA to create purchase info records based on awards information from SAP Ariba Strategic Sourcing Suite. Buyers using SAP Ariba Sourcing integrated with SAP ERP or SAP S/4HANA through SAP Integration Suite, managed gateway for spend management and SAP Business Network can include custom fields in the **LineItemData/General Data** section of the purchase info records.

When SAP ERP receives the award information from SAP Ariba Strategic Sourcing Suite, SAP ERP creates a purchase info record for each of the line items in an SAP Ariba Strategic Sourcing Suite award. When a purchase info record is successfully created, SAP ERP sends the purchase info record (PIR) number to SAP Ariba Strategic Sourcing Suite. If a purchase info record is already available for a line item and if there is a change in any of the values associated with that item in the newly received award information, SAP ERP modifies the corresponding purchase info record.

If SAP ERP encounters errors while creating or modifying a purchase info record, SAP ERP sends an error message to SAP Ariba Strategic Sourcing Suite. The error message contains the details of the error.

ⓘ Note

In some cases, when SAP ERP receives the award, SAP ERP does not create the purchase info records for some material items. Instead, SAP ERP sent a success message with a blank *Purchaseinfo record number* for the missing purchase info records.

To prevent incorrect success messages with blank *Purchaseinfo record number* when SAP ERP does not create purchase info records, ensure that you apply the [SAP note, 2893586 - PIR creation from Ariba fails without error](#).

SAP ERP supports pricing conditions and validity periods in purchase info records. A purchase info record in SAP ERP can have one or more pricing conditions that have one or more validity periods. You need to maintain the pricing conditions between SAP Ariba and SAP ERP in the **Cross Reference** section on SAP Integration Suite, managed gateway for spend management and SAP Business Network.

SAP ERP or SAP S/4HANA supports the integration of pricing scales received from SAP Ariba strategic sourcing solutions through sourcing events to the purchase info records. Pricing scales are defined as part of pricing condition records. Pricing scales enable the suppliers to decide the price of the material based on the quantity of the material that the buyers want to buy. For example, the suppliers can decide the reduction in the price of the material that they can offer to the buyers based on the increase in the quantity of the material that the buyers want to buy. You can define the pricing scale for a pricing condition type based on quantity.

ⓘ Note

Integration of pricing scales are supported on the following SAP ERP and SAP S/4HANA versions:

- SAP ERP: SAP EHP7 for SAP ERP 6.0 (SAP_APPL 617 Minimum supported version) or higher
- All supported versions of SAP S/4HANA

This feature supports the pricing scale types **From-scale** or **To-scale**. The pricing scale types determine the validity of the scale. The **From-scale** determines the quantity from which the scale is valid. The **To-scale** determines the quantity up to which the scale is valid.

To enable the integration of pricing scales from SAP Ariba strategic sourcing solutions to the purchase info records of SAP ERP or SAP S/4HANA, you must maintain the `ENABLE_SCALES_PIR` parameter. For more information, refer to [Maintaining Parameters for Enabling the Integration of Pricing Scales with Purchase Info Records in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

To support the integration of pricing scales with Purchase Info Records the `PRE_PROCESS_PIR` and the `POST_PROCESS_PIR` methods are added to the BAdl, `ARBCIG_PURINFREC`. These methods capture the success or the failure messages of the API run and generate the logs. Because this feature is Forward Error Handling (FEH) enabled, the success or the failure messages of APIs are also used in FEH. For more information, refer to [Implementing the BAdl for Purchase Info Records in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

After the successful integration of pricing scale information with the purchase info records, SAP ERP or SAP S/4HANA sends the PIR document number as the PIR acknowledgment back to SAP Ariba Strategic Sourcing Suite through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

You can customize using the `ARBCIG_PURCHASE_INFOREC` enhancement spot to map additional fields to the purchase info record.

SAP ERP supports custom fields in the **LineItemData/General Data** section of a purchase info record. These custom fields are used for including additional information about the material or the supplier information in the

purchase info record document. To support custom fields in the purchase info record integration between SAP Ariba Strategic Sourcing Suite and SAP ERP, the associated BAdI, ARBCIG_PURINFREC, must be implemented in SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Implementing the BAdI for Purchase Info Records of SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Prerequisites

- Maintain the connection parameters for the master data. To do this task, you can navigate to the SPRO node, **► Integration with Other SAP Components > Managed Gateway for Spend&Network for Buyer > Master Data Integration > Connection Parameters for Master Data**. The entries are maintained in the ARBCIG_AUTHPARAM table.
For more information, refer to [Configuring Connection Parameters](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- Maintain the required sourcing parameters. To do this task, navigate to the SPRO node, **► Integration with Other SAP Components > Managed Gateway for Spend&Network for Buyer > Master Data > General Settings > Maintain Parameters > Sourcing**. The entries are maintained in the ARBCIG_TVVARV table.
For more information, refer to [Configuring Connection Parameters](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- Map Ariba condition types to SAP condition types for Purchase Info Records (PIR). If you are using the version 2008 with support package, SP0010 and higher, navigate to the SPRO node, **► Integration with Other SAP Components > Managed Gateway for Spend&Network for Buyer > Master Data Integration > Purchase Info Records > Maintain Ariba Condition Types** to do this task.
If you are using a version earlier than version 2008 with support package, SP0010, you must manually do this mapping in the ARBCIG_COND_MAP table.
- Configure your SAP ERP system to use the direct integration method or the middleware.
- If your SAP Ariba Sourcing site is integrated to use master data, your site must have the master data items loaded from SAP ERP. Your SAP Ariba Sourcing site must be integrated with an SAP ERP to use the middleware and have SAP ERP configured as an external system in the Master Data Manager area of the Ariba Administrator.
- Ensure that you import the plant, plant purchase org, purchase org, and purchase group master data before you run the master data import for the material master.
- To prevent incorrect success messages with blank *Purchaseinforecordnumber* when SAP ERP does not create purchase info records, ensure that you apply the [SAP note, 2893586 - PIR creation from Ariba fails without error](#).
- Apply SAP Note [2811198](#).
- If you want to set the pricing validity date as December 31, 9999, enable the parameter `ENABLE_PIR_END_DATE_MODIFICATION`.

Limitations

SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the following:

- Master data integration for Field Glass
- Using Ariba Integration Tool Kit-based connections for importing master data from SAP ERP systems to SAP Ariba Sourcing and SAP Ariba Contracts.
- SAP Ariba Sourcing does not support deletion of class information. If you delete a class associated with material master data in SAP ERP and run an incremental export, the incremental export does not modify the corresponding records in SAP Ariba Sourcing to indicate that the class associated with the material is deleted. This might cause the classification data in SAP Ariba Sourcing and SAP ERP to be out of sync when some records have been deleted in SAP ERP.

→ Tip

You can edit the material master data to remove the classification information. Ensure that you then run an incremental export event to update the corresponding data in SAP Ariba Sourcing.

- Deletion of purchase info records
- Scale-based conditions
- Creation of purchase info records for multiple conditions
- Using custom fields in the **PurchaseOrgdata** and **Conditions** section of the purchase info record document in SAP ERP or SAP S/4HANA.
- Pricing scales based on value, gross weight, net weight, or volume are not supported.
- Graduated scales are not supported.
- When you split an existing pricing validity period, the end date of any of the splits must not match the end date of the original validity period.

About Integrating SAP Retail with SAP Ariba Strategic Sourcing Suite

You can integrate SAP Retail with SAP Ariba Strategic Sourcing Suite using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

SAP Retail enables your retail company to respond to the demands of your market quickly. With SAP Retail, you can leverage SAP technology to build a highly efficient, customer-centric retail environment.

SAP Ariba Strategic Sourcing Suite helps your company address the challenges in ensuring sustainable results in your sourcing process. SAP Ariba Strategic Sourcing Suite helps in discovering suppliers and managing the supplier information effectively without compromising the cost, quality, and the performance of supply chain.

Integrating SAP Retail with SAP Ariba Strategic Sourcing Suite helps manage the sourcing of the retail articles in your distribution center or store effectively. The integration also enables you to maintain your supply chain optimally using SAP Ariba Strategic Sourcing Suite.

Integration of retail master data is an important part of integrating SAP Retail with SAP Ariba Strategic Sourcing Suite. The integrated retail master data is used in SAP Ariba Strategic Sourcing Suite to create sourcing events. This feature also enables you to integrate a specific type of structured article (display set) created in SAP Ariba Strategic Sourcing Suite with SAP Retail.

This release of the integration of SAP Retail with SAP Ariba Strategic Sourcing Suite feature enables you to integrate the following master data with SAP Ariba Strategic Sourcing Suite:

- Characteristic
- Characteristic profile or configuration class
- Merchandise category
- Merchandise hierarchy
- Article master data

You can send the master data of the following types of articles from SAP Retail to SAP Ariba Strategic Sourcing Suite using SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- Single article
- Generic article
- Variant article
- Sales set
- Prepack
- Display set

Sales set, prepack, and display set are known as structured articles. They include an article and more than one component. For example, in Christmas season, a retailer can procure a display set article that comprises a Christmas tree as the display article and various gifts as components. Then, the retailer can sell the components (gifts) to customers. The following table lists the message types that are used in integrating SAP Retail article master data with SAP Ariba Strategic Sourcing Suite:

Master Data	Message Type
Characteristics	CHRMAS
Characteristic profile or configuration class	CLSMAS
Merchandise category and merchandise hierarchy	WMERCAT
Article master data	ARTMAS
Article master data components	BOMMAT
IDOC acknowledgement	ALEAUD

This feature supports the extension of all articles to valid distribution centers in SAP Retail.

Prerequisites

Before you integrate retail master data with SAP Ariba Strategic Sourcing Suite, you must ensure the following:

General prerequisites

- When you use SAP S/4HANA, on-premise edition 2020 with SAP Retail with SAP Ariba strategic sourcing solutions, ensure that you apply the SAP Note [2907319](#).
- Import master data for SAP Ariba Strategic Sourcing Suite from SAP ERP.

- Integrate and configure SAP Retail (EA-Retail for SAP ERP). You must also install the following software packages:
 - ARBCI1 100 SP01 (Software package specific to SAP Ariba)
 - ARBCI1 10S SP01 (Software package specific to SAP Ariba)
 - EA-RETAIL EHPO SP22 (Enterprise software package)

After you install the software components, you must also install the following:

- Ariba Cloud Integration for RETAIL. Version 1.0 (ARBCIGR 100) - Use for SAP ERP EHP 0 to EHP8
- ARIBA CLOUD INT FOR S/4HANA 1.0 (ARBCIGR 10S) - Use for SAP S/4 HANA

- Integrate and configure the Retail application with SAP Ariba Strategic Sourcing Suite.
- Before you integrate retail master data with SAP Ariba Strategic Sourcing Suite, you must complete the following global configuration tasks in the order they are listed:
 1. Maintain certificates
 2. Create an RFC destination for SAP Integration Suite, managed gateway for spend management and SAP Business Network
 3. Create port definition for SAP Integration Suite, managed gateway for spend management and SAP Business Network
 4. Create logical system
 5. Configure receiver port
 6. Send SAP information to SAP Integration Suite, managed gateway for spend management and SAP Business Network
 7. Assign basic type to SAP Ariba ARTMAS IDOC
 8. Setup the interface to connect from SAP Ariba Strategic Sourcing Suite to SAP Integration Suite, managed gateway for spend management and SAP Business Network
 9. Verify the assignment of message types to partner profile for retail master data integration

For more information, see [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).

Prerequisites for integrating characteristic, characteristic profile or configuration class, and merchandise category master data with SAP Ariba Strategic Sourcing Suite

- To delete the characteristics, characteristics profile or configuration class, and merchandise category master data, you must do the following:
 - Configure implicit enhancements to collect the deleted characteristic, characteristic profile or configuration class, and merchandise category master data information in realtime.
 - Configure an outbound proxy on the **Interface Setup Program for SAP Ariba Strategic Sourcing** page to send the deleted master data information to SAP Ariba Strategic Sourcing Suite.
- To send characteristic profile information as master data in full load to SAP Ariba Strategic Sourcing Suite, you must do the following:
 - Configure the ALE Object type and assign it to the CLSMAS message type
 - Configure the filter group for the CLSMAS message type with the MMS Class Type = 2 and the Class Type = 300 filters

Prerequisites for receiving the master data of the display set article sent from SAP Ariba Strategic Sourcing Suite.

- To send the master data of the display set article from SAP Ariba Strategic Sourcing Suite to SAP Retail, you must ensure that the following parameters are enabled. For enabling these parameters, contact SAP Ariba Support.

- Application.AQS.ArticleIntegration.ArticleDataCreation.Enabled
This parameter specifies whether retail master data creation is enabled.
- Application.AQS.ArticleIntegration.ArticleTypeDefaultValue
This parameter specifies the default value to be set for the *Article* or *Material Type* field while creating an article.
- Application.AQS.ArticleIntegration.Enabled
This parameter specifies whether retail master data integration feature is enabled.
- Application.AQS.ArticleIntegration.MixedCaseIntegration.Enabled
This parameter specifies whether mixed case integration is enabled.
- Application.AQS.ArticleIntegration.MixedCases.Enabled
This parameter specifies whether mixed case feature is enabled.
- In SAP Retail, schedule the job to send a response to the inbound ARTMAS or BOMMAT master data of the display set article that is sent from SAP Ariba Strategic Sourcing Suite.
- For each material group that you want to use for creating the inbound article, you must create a reference material with the Basic Data and Logistics: Distribution Center view.

Limitations

This feature does not support the following:

- Time format for characteristics master data in SAP Ariba Strategic Sourcing Suite.
- Range and selection combination for the possible characteristics values.
- Range as an applied value of an article in SAP Ariba Strategic Sourcing Suite. Applied value of an article can be a single value within the defined range of the characteristic. The behavior will be the same for all numeric, date, and currency formats.
- Incremental load to send the changes in the merchandise category and the merchandise hierarchy master data from SAP Retail. You must use full load to send the updated merchandise category and merchandise hierarchy master data to SAP Ariba Strategic Sourcing Suite.

About Sending Retail Master Data from SAP Ariba Strategic Sourcing Suite to SAP Retail

On some occasions, you create articles in SAP Ariba Strategic Sourcing Suite and send the master data to SAP Retail. This feature supports the integration of the following master data from SAP Ariba Strategic Sourcing Suite to SAP Retail:

Article master data type	Description
Single article	These are individual, standard articles. SAP Ariba Strategic Sourcing Suite sends single article master data to SAP Integration Suite, managed gateway for spend management and SAP Business Network, where the message is mapped to an IDOC of the message type ARTMAS and sends to SAP Retail.

Article master data type	Description
Variant article	<p>A variant article is usually treated as a child to a generic article. A variant article represents well-defined characteristics of the generic article. For example, if a 'shirt' is a generic article, a variant associated with this generic article can be its 'size XL'. A generic article can have more than one variant.</p> <p>You can send variable articles from SAP Ariba Strategic Sourcing Suite to a generic article that you have defined in SAP Retail.</p> <p>SAP Ariba Strategic Sourcing Suite sends the variant article master data to SAP Integration Suite, managed gateway for spend management and SAP Business Network, where the message is mapped to an IDOC of the message type ARTMAS and sends to SAP Retail.</p>
Display set article	<p>A display set is a collection of single articles where the retailers can procure the article and the components together and sell only the components. For example, in the Christmas season, the retailer can procure a display set article that comprises a Christmas tree as the display article and various gifts as components. Then, the retailer can sell the components (gifts) to customers.</p> <p>A display set article contains an article and its components. SAP Ariba Strategic Sourcing Suite sends article master data to SAP Integration Suite, managed gateway for spend management and SAP Business Network, where the message is mapped to an IDOC of the message type ARTMAS and sends to SAP Retail. Similarly, SAP Ariba Strategic Sourcing Suite sends the master data related to the components to SAP Retail using an IDOC of the message type BOMMAT.</p>

Optionally, you can specify the plant information when you send the master data information of a single, variant, or a display set article to SAP Retail. SAP Ariba Strategic Sourcing Suite sends the plant information to SAP Retail as site extension information using the ARTMAS message type. SAP Ariba Strategic Sourcing Suite assigns a unique ID to each line of the site extension information. After SAP Retail receives multiple request files, with each file containing information of a plant and a material, it updates the material number on the SAP Retail UI based on the latest request file received from SAP Ariba Strategic Sourcing Suite. On the SAP Ariba Strategic Sourcing Suite UI, you can still use SAP material number for performing search. After you run the incremental load from SAP Retail, the site extension information is updated on the SAP Ariba Strategic Sourcing Suite UI.

ⓘ Note

Site extension creates a MARC table entry for the single, variant, or the display set article. Create listing in SAP Retail to create the purchase order for the article.

The following paragraph explains the process of updating a single or a variant article master data from SAP Ariba Strategic Sourcing Suite to SAP Retail:

When you send a single or a variant article master data from SAP Ariba Strategic Sourcing Suite to SAP Retail, the article master data is sent to SAP Retail through SAP Integration Suite, managed gateway for spend management and SAP Business Network using an IDOC of the message type ARTMAS. If you have opted to send the site extension details, SAP Ariba Strategic Sourcing Suite includes that information as part of the ARTMAS message type. On receiving this article master data, SAP Retail sends an acknowledgment using the ALEAUD message type. After SAP Retail receives all information about the single or the variant article master data, it updates this information back to SAP Ariba Strategic Sourcing Suite.

The following paragraph explains the process of updating a display set master data from SAP Ariba Strategic Sourcing Suite to SAP Retail:

When you send the display set master data from SAP Ariba Strategic Sourcing Suite to SAP Retail, the article master data of the display set is being sent first to SAP Retail through SAP Integration Suite, managed gateway for spend management and SAP Business Network using an IDOC of the message type ARTMAS. On receiving this article master data, SAP Retail sends an acknowledgment using the ALEAUD message type. After SAP Ariba Strategic Sourcing Suite receives the acknowledgment of the article master data, it sends the component information using the IDOC of the message type BOMMAT to SAP Retail. On receiving the information about the components, SAP Retail sends another acknowledgment using the message type ALEAUD. After SAP Ariba Strategic Sourcing Suite receives the acknowledgment of the components, it sends the site extension information to SAP Retail using the IDOC of the message type ARTMAS. SAP Retail acknowledges the receipt of site extension information as well. After SAP Retail receives all information about the display set master data, it updates this information back to SAP Ariba Strategic Sourcing Suite.

Along with sending the single, variant, or the display set article master data to SAP Retail, SAP Ariba Strategic Sourcing Suite also sends the pricing information of the article to SAP Retail using purchase info record. Purchase info records are updated in the SAP Retail database.

In SAP Retail, use the RBDSTATE program to schedule the job to send a response to the inbound ARTMAS or BOMMAT master data of the display set article sent from SAP Ariba Strategic Sourcing Suite. For more information, refer to the **Scheduling the jobs for retail master data integration** section in this guide.

Integration to Support Integration of Supplier Data Managed in SM Administration With SAP Integration Suite, managed gateway for spend management and SAP Business Network

[Integration to Support Integration of Supplier Data Managed in SM Administration With SAP Integration Suite, managed gateway for spend management and SAP Business Network \[page 81\]](#)

Integration to Support Integration of Supplier Data Managed in SM Administration With SAP Integration Suite, managed gateway for spend management and SAP Business Network

Buyers who maintain supplier data in SAP Ariba sites that include **SM Administration** can use the business partner data model to integrate the supplier master data between SAP Ariba solutions and SAP ERP, SAP S/4HANA, or SAP Master Data Governance using the SAP Integration Suite, managed gateway for spend management and SAP Business Network. You can integrate supplier data by using the direct connectivity integration method or using a middleware.

You can integrate the inbound and outbound supplier data using the following standard services:

- `BusinessPartnerSUITEBulkReplicateRequest_In`
- `BusinessPartnerSUITEBulkReplicateRequest_Out`
- `BusinessPartnerSUITEBulkReplicateConfirmation_In`
- `BusinessPartnerSUITEBulkReplicateConfirmation_Out`

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the integration of key mapping between multiple vendor IDs and business partner ID.

[Prerequisites and Restrictions \[page 81\]](#)

[Workflow for SAP Ariba Supplier Lifecycle and Performance \[page 87\]](#)

Prerequisites and Restrictions

If you are a customer using SAP ERP, SAP S/4HANA, or SAP Master Data Governance (MDG) for integration of supplier data managed in **SM Administration** using SAP Integration Suite, managed gateway for spend management and SAP Business Network, the following prerequisites apply for supplier data integration:

Prerequisites

Common prerequisites to integrate your SAP Ariba site with one of the SAP systems for integrating Business Partner (supplier) data

The end-to-end scenario is officially released by SAP with the following software products:

- SAP Ariba Supplier Lifecycle and Performance, SAP Ariba Supplier Information and Performance Management (new architecture), or SAP Ariba Supplier Risk
- SAP ERP 6.0 Enhancement Package 8 with Support Package 12
- SAP S/4HANA 1809
- SAP MDG 9.2 as add-on for SAP ERP 6.0 Enhancement Package 8 with Support Package 12
- SAP MDG as add-on for SAP S/4HANA 1809
- Any newer release of SAP ERP 6.0, SAP S/4HANA, or SAP MDG

Older releases of SAP ERP, SAP S/4HANA, or SAP MDG do not support the end-to-end scenario as a SAP standard solution. SAP does not recommend building any custom solution for unsupported software products or releases. This limitation is due to the difference in the data models used by SAP Ariba and SAP ERP or SAP S/4HANA. If your existing integration is working, you can continue to use it. However, using custom integration scenarios usually results in various error messages or displays invalid results, such as:

- Contact person data including workplaces is not saved or causes error messages during inbound processing.
- Roles are not saved or cause error messages during inbound processing.
- Purchasing organization data including partner functions is not saved or causes error messages during inbound processing, etc.

The missing codes cannot be written in the customer namespace or SAP standard codes modified. SAP can neither provide guidance nor support for a preliminary solution.

If you want to use the functionality in your scenarios, you must update your SAP ERP or SAP S/4HANA system to the minimum required releases as mentioned above.

Prerequisites for SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Install and set up SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see the section, [Downloading SAP Process Integration and Process Orchestration from SAP Service Marketplace in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- Set up the P user ID and password. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba strategic sourcing solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- Create a project for SAP Ariba Sourcing on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. For more information, see [Configuring a SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Project for SAP Ariba Solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- If you want to maintain multiple vendor IDs for a business partner ID, SAP Ariba requires the following document types in the  **Document Type** page on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal:
 - KeyMappingBulkReplicateRequest
 - KeyMappingBulkReplicateConfirm
- If you are an existing customer using SAP Ariba cloud integration release 9.0 and earlier, ensure that you do the following:
 - Disable the polling client /ARBA/CO_POLLING_CLIENT_REQRES.
 - Disable the /ARBA/CO_SI_SOURCING_UPLOAD (outbound) and the /ARBA/CO_SI_SOURCING_DOWNLOAD (inbound) proxies.
 - Disable the two standard proxies for the URL access path:
 - CO_MDG_BP_RPLCTRQ for outbound supplier data integration from SAP ERP or SAP S/4HANA
 - CO_MDG_BP_RPLCTCO for outbound confirmations from SAP ERP or SAP S/4HANA
 - After you disable /ARBA/ proxies, configure and set up the following connections to send and receive the supplier data from SAP Integration Suite, managed gateway for spend management and SAP Business Network:
 - **Outbound transaction messages sent to SAP Integration Suite, managed gateway for spend management and SAP Business Network**
 - **SLP Confirmation Out Request**

- **SLP Outbound Request**
- **Inbound transaction messages sent from SAP Integration Suite, managed gateway for spend management and SAP Business Network**
 - **SLP Confirmation In Request**
 - **SLP Inbound Request**

For more information, see [Configuring the Connections to SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

- You no longer need the table /ARBA/SM_SEQNUM to integrate your SAP Ariba site with SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Ensure that you implement the SAP Note, [2824730 - The report to pull suppliers from SAP Ariba Supplier Lifecycle and Performance failed](#). You must implement this SAP Note, if you are a buyer using Ariba Network adapter for SAP NetWeaver that migrated to SAP Integration Suite, managed gateway for spend management and SAP Business Network integrated with your SAP Ariba site. Implementing this SAP Note prevents any errors that occur on running the polling client /ARBA/SM_BUSINESS_PARTNER_PULL on SAP ERP or SAP S/4HANA.

Prerequisites for SAP ERP or SAP S/4HANA, or SAP MDG

- Install the SSL certificates. For more information, see [Installing the SSL Certificate in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Configure and set up the following connections to send and receive the supplier data from SAP Integration Suite, managed gateway for spend management and SAP Business Network:
 - **Outbound transaction messages sent to SAP Integration Suite, managed gateway for spend management and SAP Business Network**
 - **SLP Confirmation Out Request**
 - **SLP Outbound Request**
 - **Inbound transaction messages sent from SAP Integration Suite, managed gateway for spend management and SAP Business Network**
 - **SLP Confirmation In Request**
 - **SLP Inbound Request**

For more information, see [Configuring the Connections to SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

- If you want to use the certificate-based authentication, configure the digital certificates and keys and provide the necessary authorizations.
- If you want to use multiple vendor IDs to a business partner ID, configure the SOAMANAGER to send the key mapping information. For more information, see [Configuring SOAMANAGER to Support Key Mapping Between Multiple Vendor IDs](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

ⓘ Note

Ensure that sender business system ID must always point to the logical system for any outbound transaction documents you send from SAP Integration Suite, managed gateway for spend management and SAP Business Network to SAP Integration Suite, managed gateway for spend management and SAP Business Network. Specify the logical system name as the sender business system ID.

Prerequisites for SAP Ariba Supplier Management solutions

- Set up the SAP ERP or SAP S/4HANA, or SAP MDG system credentials in your SAP Ariba site. For more information, see [Setting Up Integration in Your SAP Ariba Site](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- If your solution supports bidirectional integration, specify how and when suppliers created in SAP Ariba are first synchronized to SAP ERP or SAP S/4HANA. For more information, see [Setting Up Supplier Data Synchronization with SAP Ariba Supplier Management solutions to SAP ERP, SAP S/4HANA, or SAP Master Data Governance](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- If you plan to use mass registration invitation waves to onboard existing suppliers to SAP Ariba Supplier Management solutions, once those waves are created, specify how the suppliers in them will be synchronized to SAP ERP or SAP S/4HANA. For more information, see [Controlling the Ongoing Synchronization of Data from Suppliers in Mass Registration Waves](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Restrictions

- Integration is only supported for the business partner supplier segment. Integration messages sent from SAP Ariba to the ERP system only include the supplier segment. Replication of data for other segments, such as customer, person, and groups, from an SAP ERP system to SAP Ariba can result in data loss when SAP Ariba sends the data back to the ERP system.
- Any updates (creation, change, or deletion) made to supplier data using the Business Partner transaction in SAP S/4HANA are not supported in the ARBCIG_CHANGEDOC table as well as the ARBCIG_MASTER_DATA_EXPORT report.
- SAP Ariba Supplier Risk supports unidirectional integration, with supplier replication from the integrated ERP system to SAP Ariba Supplier Risk. SAP Ariba Supplier Risk doesn't support synchronization of updates back to the ERP system.

Prerequisites When Using a Standalone MDG

If you are a customer using a standalone instance of SAP Master Data Governance (MDG) and SAP Integration Suite, managed gateway for spend management and SAP Business Network without the add-on components for SAP Integration Suite, managed gateway for spend management and SAP Business Network, the following are the prerequisites and limitation for the supplier data integration with SAP Ariba Supplier Management solutions:

Prerequisites

Common prerequisites

- Ensure that your system meets the following minimum software requirements:
 - SAP EHP6 for SAP ERP 6.0 with non-SAP SAP S/4HANA database (SAP_APPL 606 SP05)
 - SAP EHP6 for SAP ERP 6.0 with SAP SAP S/4HANA database (SAP_APPL 606 Minimum supported version)

- SAP Business Services Foundation 731
- Configure the MDG or DRF integration for suppliers. . For the outbound integration, do the following:
 - Enable the business functions for MDG. For more information, see [Configuring SOAMANAGER to Support Standalone MDG in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
 - Set up the customer-vendor integration, define a replication model and assign a target system for the replication model or outbound implementation. For more information, see [Defining a Replication Model for Supplier Data Replication in MDG in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- If you are an existing customer using SAP Ariba cloud integration release 9.0 and earlier, ensure that you do the following:
 - Disable the polling client /ARBA/CO_POLLING_CLIENT_REQRES.
 - Disable the /ARBA/CO_SI_SOURCING_UPLOAD (outbound) and the /ARBA/CO_SI_SOURCING_DOWNLOAD (inbound) proxies.
 - Edit the two standard proxies for the URL access path:
 - CO_MDG_BP_RPLCTRQ for outbound supplier data integration from SAP ERP
 - CO_MDG_BP_RPLCTCO for outbound confirmations from SAP ERP
 - After you disable /ARBA/ proxies, edit the above standard existing configuration. For more information, see [Configuring SOAMANAGER to Support Key Mapping Between Multiple Vendor IDs in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
 - Ensure that you configure the SAP ERP, SAP Ariba site, and SAP Integration Suite, managed gateway for spend management and SAP Business Network to support the new changes.
 - Configure the SOAMANAGER again. For more information, see [Configuring SOAMANAGER to Support Standalone MDG in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
 - You no longer need the table /ARBA/SM_SEQNUM to integrate your SAP Ariba site with SAP Integration Suite, managed gateway for spend management and SAP Business Network.
 - Ensure that you implement the SAP Note, [2824730 - The report to pull suppliers from SAP Ariba Supplier Lifecycle and Performance failed](#). You must implement this SAP Note, if you are a buyer using Ariba Network adapter for SAP NetWeaver that migrated to SAP Integration Suite, managed gateway for spend management and SAP Business Network integrated with SAP Ariba Supplier Lifecycle and Performance. Implementing this SAP Note prevents any errors that occur on running the polling client /ARBA/SM_BUSINESS_PARTNER_PULL on SAP ERP.

Prerequisites for SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Install and set up SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Downloading and Installing the Add-On from SAP for Me in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- Set up the P user ID and password. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba strategic sourcing solutions in the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- Create a project for SAP Ariba Sourcing on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. For more information, see [Configuring a SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Project for SAP Ariba Solutions](#)

in the [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).

- If you want to maintain the cross references, your SAP Ariba site requires the following document types in the  [Cross References](#) page on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal:
 - `BusinessPartnerSUITEReuplicateRequest`
 - `BusinessPartnerSUITEReuplicateConfirmation`
- Configure the Basic Data information to configure the SAP ERP system to send the information to SAP Integration Suite, managed gateway for spend management and SAP Business Network manually. Enter the ERP name, ERP version, and Middleware values in the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal.

Prerequisites for SAP ERP

- Install the SSL certificates. For more information, see [Installing the SSL Certificate in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Configure the SOAMANAGER. For more information, see [Configuring SOAMANAGER to Support Standalone MDG in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- If you want to use the certificate-based authentication, configure the digital certificates and keys and provide the necessary authorizations.

Prerequisites for your SAP Ariba solution:

- Set up the SAP ERP system credentials in your SAP Ariba site. For more information, see [Setting Up Integration in Your SAP Ariba Site in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Specify how and when suppliers created in SAP Ariba are first synchronized to SAP ERP. For more information, see [Setting Up Supplier Data Synchronization with SAP Ariba Supplier Management solutions to SAP ERP, SAP S/4HANA, or SAP Master Data Governance in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- (Optional) If you want to validate approved supplier requests in SAP MDG-S and check for duplicates before suppliers are created in SAP Ariba, set up the SAP ERP MDG-S validation and approval requirement. For more information, see [Configuring Supplier Data Integration in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- (Optional) If you want to use SAP ERP Master Data Governance approval processes to require approval of supplier changes made in SAP Ariba in SAP ERP as well, set up the SAP ERP approval requirement. For more information, see [Configuring Supplier Data Integration in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- (Optional) If you plan to use mass registration invitation waves to onboard existing suppliers to SAP Ariba, once those waves are created, specify how the suppliers in them will be synchronized to SAP ERP. For more information, see [Controlling the Ongoing Synchronization of Data from Suppliers in Mass Registration Waves in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Restrictions

- SAP Ariba doesn't support multiple ERP systems.

Workflow for SAP Ariba Supplier Lifecycle and Performance

The following steps describe the workflow for setting up integration between SAP ERP, SAP Ariba Supplier Management solutions and SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- Ensure that your system meets the following minimum software requirements. For more information, see [Prerequisites and Restrictions \[page 81\]](#).
- If you are an existing customer using SAP Ariba cloud integration release 9.0 and earlier, you need to do the following:
 - Disable the polling client /ARBA/CO_POLLING_CLIENT_REQRES.
 - Disable the /ARBA/CO_SI_SOURCING_UPLOAD (outbound) and the /ARBA/CO_SI_SOURCING_DOWNLOAD (inbound) proxies.
 - Disable the two standard proxies for the URL access path:
 - CO_MDG_BP_RPLCTRQ for outbound supplier data integration from SAP ERP
 - CO_MDG_BP_RPLCTCO for outbound confirmations from SAP ERP
 - After you disable /ARBA/ proxies, configure and set up the connections to send and receive the supplier data from SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Prerequisites and Restrictions \[page 81\]](#).
 - Ensure that you configure the SAP ERP, SAP Ariba Supplier Management solutions, and SAP Integration Suite, managed gateway for spend management and SAP Business Network to support the new changes.
 - You no longer need the table /ARBA/SM_SEQNUM to integrate SAP Ariba Supplier Management solutions with SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Configure the MDG or DRF integration for suppliers.
- To set up the outbound transaction, do the following:
 - Enable the business functions for MDG. For more information, see [Configuring SOAMANAGER to Support Standalone MDG in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
 - Set up the customer-vendor integration, define a replication model and assign a target system for the replication model or outbound implementation. For more information, see [Defining a Replication Model for Supplier Data Replication in MDG in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
 - Ensure that you make the necessary changes on your MDG system to support the key mapping for multiple SAP ERP systems.
- Set up SAP Ariba Supplier Management solutions:
 - Set up the SAP ERP system credentials in SAP Ariba Supplier Lifecycle and Performance. For more information, see [Setting Up Integration in Your SAP Ariba Site in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

- Specify how and when suppliers created in SAP Ariba Supplier Lifecycle and Performance are first synchronized to SAP ERP. For more information, see [Setting Up Supplier Data Synchronization with SAP Ariba Supplier Management solutions to SAP ERP, SAP S/4HANA, or SAP Master Data Governance in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- (Optional) If you want to validate approved supplier requests in SAP MDG-S and check for duplicates before suppliers are created in SAP Ariba Supplier Management solutions, set up the SAP ERP MDG-S validation and approval requirement. For more information, see [Configuring Supplier Data Integration in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- (Optional) If you want to use SAP ERP Master Data Governance approval processes to require approval of supplier changes made in SAP Ariba Supplier Management solutions in SAP ERP as well, set up the SAP ERP approval requirement. For more information, see [Configuring Supplier Data Integration in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- (Optional) If you plan to use mass registration invitation waves to onboard existing suppliers to SAP Ariba Supplier Management solutions, once those waves are created, specify how the suppliers in them will be synchronized to SAP ERP. For more information, see [Controlling the Ongoing Synchronization of Data from Suppliers in Mass Registration Waves in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Set up SAP Integration Suite, managed gateway for spend management and SAP Business Network:
 - Install and set up SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Downloading and Installing the Add-On from SAP for Me in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
 - Set up the P user ID and password. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba strategic sourcing solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
 - Create a project for SAP Ariba Sourcing on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. For more information, see [Configuring a SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Project for SAP Ariba Solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
 - If you want to maintain the cross references, SAP Ariba Supplier Management solutions require the following document types in the  [Cross References](#) page on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal:
 - `BusinessPartnerSUITEReplicateRequest`
 - `BusinessPartnerSUITEReplicateConfirmatio`
 - If you want to maintain the cross references to support multiple vendor IDs to a business partner ID, SAP Ariba Supplier Management solutions require the following document types in the  [Cross References](#) page on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal:
 - `KeyMappingBulkReplicateRequest`
 - `KeyMappingBulkReplicateConfirm`
- Set up the SAP ERP:

- Install the SSL certificates. For more information, see [Installing the SSL Certificate in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Configure and set up the connections to send and receive the supplier data from SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Prerequisites and Restrictions \[page 81\]](#) and [Configuring the Connections to SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- If you want to use the certificate-based authentication, configure the digital certificates and keys and provide the necessary authorizations.
- If you want to customize the supplier information, see [Configuring SAP Process Integration in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- If you want to use multiple vendor IDs to a business partner ID, configure the SOAMANAGER to send the key mapping information. For more information, see [Configuring SOAMANAGER to Support Key Mapping Between Multiple Vendor IDs in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

 **Note**

If you are using a standalone instance of MDG, see the section, Prerequisites when using a standalone MDG.

Integration scenarios for supplier data

Supplier data integration scenarios for SAP ERP

Integration Scenario: Create Supplier in SAP Ariba and Replicate to SAP ERP, Update Supplier in SAP ERP and Replicate to SAP Ariba

This integration scenario provides a step-by-step description of one of the integration scenarios for supplier data integration between SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture) and SAP ERP.

1. Create new supplier in SAP Ariba.
A requester creates a supplier request, and approvers finally approve the request. A new supplier is created in SAP Ariba with default account group and business partner group code.
2. Register new supplier in SAP Ariba.
A supplier registration manager invites the supplier to register and the supplier submits one or more external registration questionnaires. Internal users can also submit internal questionnaires. Approvers finally approve all questionnaires and the supplier moves to **Registered** registration status.
3. Initial supplier replication from SAP Ariba to SAP ERP.
Based on integration settings, achievement of **Registered** registration status triggers automatic replication of the new supplier to SAP ERP.
4. Company code, purchase organization, and partner function assignment.
In SAP ERP, role codes, purchase organizations, company codes, and partner functions are assigned to the supplier. As a best practice, this information is always added and maintained in SAP ERP.

5. Replication of updated supplier from SAP ERP to SAP Ariba.

SAP ERP replicates the updated supplier, including company code, purchasing organization, and partner function information, to SAP Ariba through DRFOUT. SAP Ariba updates the supplier.

Integration Scenario: Update Supplier in SAP Ariba and Replicate to SAP ERP

This integration scenario provides a step-by-step description of one of the integration scenarios for supplier data integration between SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture) and SAP ERP.

1. Supplier is updated in SAP Ariba.
A supplier updates answers to mapped questions in an external registration questionnaire.
2. Replication of update from SAP Ariba to SAP ERP.
The update triggers automatic replication of the updated supplier to SAP ERP.
3. SAP ERP updates the supplier.

Integration Scenario: Create Supplier in SAP ERP and Replicate to SAP Ariba

This integration scenario provides a step-by-step description of one of the integration scenarios for supplier data integration between SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture) and SAP ERP.

1. Create a new supplier in SAP ERP.
A new supplier is created in SAP ERP using a business partner transaction and assigned purchasing organizations and company codes.
2. Initial supplier replication to SAP Ariba.
SAP ERP replicates the new supplier to SAP Ariba using DRFOUT. The new supplier is created in SAP Ariba.

Supplier data integration scenarios for S/4HANA

Integration Scenario: Create Supplier in SAP Ariba and Replicate to SAP S/4HANA, Update Supplier in SAP S/4HANA and Replicate to SAP Ariba

This integration scenario provides a step-by-step description of one of the integration scenarios for supplier data integration between SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture) and SAP S/4HANA.

1. Create new supplier in SAP Ariba.
A requester creates a supplier request, and approvers finally approve the request. A new supplier is created in SAP Ariba with default account group, business partner group code, and business partner role code.
2. Register new supplier in SAP Ariba.

- A supplier registration manager invites the supplier to register and the supplier submits one or more external registration questionnaires. Internal users can also submit internal questionnaires. Approvers finally approve all questionnaires and the supplier moves to **Registered** registration status.
3. Initial supplier replication from SAP Ariba to SAP S/4HANA.
Based on integration settings, achievement of **Registered** registration status triggers automatic replication of the new supplier to SAP S/4HANA.
 4. Company code, purchase organization, and partner function assignment.
In SAP S/4HANA, purchase organizations, company codes, and partner functions are assigned to the supplier. As a best practice, this information is always added and maintained in SAP S/4HANA.
 5. Replication of updated supplier from SAP S/4HANA to SAP Ariba.
SAP S/4HANA replicates the updated supplier, including company code, purchasing organization, and partner function information, to SAP Ariba through DRFOUT. SAP Ariba updates the supplier.

Integration Scenario: Update Supplier in SAP Ariba and Replicate to SAP S/4HANA

This integration scenario provides a step-by-step description of one of the integration scenarios for supplier data integration between SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture) and SAP S/4HANA.

1. Supplier is updated in SAP Ariba.
A supplier updates answers to mapped questions in an external registration questionnaire.
2. Replication of update from SAP Ariba to SAP S/4HANA.
The update triggers automatic replication of the updated supplier to SAP S/4HANA.
3. SAP S/4HANA updates the supplier.

Integration Scenario: Create Supplier in SAP S/4HANA and Replicate to SAP Ariba

This integration scenario provides a step-by-step description of one of the integration scenarios for supplier data integration between SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture) and SAP S/4HANA.

1. Create a new supplier in SAP S/4HANA.
A new supplier is created in SAP S/4HANA using a business partner transaction and assigned purchasing organizations and company codes.
2. Initial supplier replication to SAP Ariba.
SAP S/4HANA replicates the new supplier to SAP Ariba using DRFOUT. The new supplier is created in SAP Ariba.

Integration to Support Master Data Native Integration

[About Integration to Support Master Data Native Integration \[page 92\]](#)

About Integration to Support Master Data Native Integration

The feature is available in SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

This feature supports transfer of master data from SAP ERP or SAP S/4HANA to the master data native integration (MDNI). Following are the highlights of the feature:

- The master data is sent from the ERP system to MDNI through SAP Integration Suite, managed gateway for spend management and SAP Business Network in XML format.
- The feature allows to export master data from multiple ERPs.
- The master data exported from each ERP system is identified by a System ID.
- The feature uses standard web services in ERP.
- The master data will pass through SAP Integration Suite, managed gateway for spend management and SAP Business Network without any mapping.
- Master data upload can be done through full uploads or incremental uploads.
- In a full upload, the full object will be uploaded each time. If the object already exists, it will be deactivated before being loaded again.
- In an incremental upload, only the incremental changes will be uploaded. If the object does not exist it will be created.

SAP ERP or SAP S/4HANA sends an XML file corresponding to the master data object. To ensure that this file is in a format that allows the SAP Ariba solutions to consume the data, WSDL files corresponding to each data object need to be uploaded to the Master Data Integration Service. The WSDL files use the corresponding APIs.

This feature supports incremental load export of only the following master data objects:

- WBS Elements
- User
- General Ledger Account

To view the master data objects for which only the full load export is supported, see [Prerequisites and Restrictions \[page 94\]](#)

For information about SAP S/4HANA Cloud Public Edition and guided buying integration capability using SAP Integration Suite, managed gateway for spend management and SAP Business Network, sign in to SAP Best Practices Explorer and see the [Set-up instructions](#) guide.

Support for Integrating Product Master Data

The buyer administrators can extract product master data (material master data) from SAP ERP or SAP S/4HANA to master data native integration (MDNI) using SAP Integration Suite, managed gateway for spend management and SAP Business Network. From MDNI, product master is integrated with SAP Ariba master data service. SAP S/4HANA applications can import product master data from SAP Ariba master data service. This capability can co-exist with the capability of extracting material master data using the existing master data export report, ARBCIG_MASTER_DATA_EXPORT

To use this capability to integrate product master from SAP ERP or SAP S/4HANA to MDNI using SAP Integration Suite, managed gateway for spend management and SAP Business Network, you must maintain the parameter CHANGEDOC_RETENTION_DAYS. This parameter allows you to configure the validity period for retaining changed material documents in the table ARBCIG_CHANGEDOC. Maintaining this parameter is necessary to use the existing method of exporting master data using the ARBCIG_MASTER_DATA_EXPORT report along with exporting product master using the ARBCIG_MDNI_PRODUCTMASTER report. For more information, refer to [Maintaining Parameters for Exporting Product Master to Master Data Native Integration in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

After you maintain the parameter CHANGEDOC_RETENTION_DAYS, you must maintain the extract, **Product Master (Material Master - MDNI)** in the table **Date and Time Stamp for Master Data** to export master data to MDNI using the ARBCIG_MDNI_PRODUCTMASTER report. If you want to use the report, ARBCIG_MASTER_DATA_EXPORT for exporting master data, you must maintain the extract, **Material Data** as well in the table **Date and Time Stamp for Master Data**. For more information, refer to [Maintaining Timestamp for Exporting Incremental Loads of Product Master Data in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

You can run the program, ARBCIG_MDNI_PRODUCTMASTER to access the **Product Master Export to MDNI** report for exporting product master. For more information, refer to [Exporting Product Master from SAP ERP to MDNI in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Alternatively, you can first run the area menu code, ARBCIG_MDNI and select the **Product Master Export to MDNI** report.

You can also schedule a job to export product master from SAP ERP to MDNI using SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, refer to [Scheduling a Job for Product Master Export Using Master Data Native Integration in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

You can implement the method ENHANCE_PRODUCTMASTER in the BAdl, ARBCIG_MDNI to support the product master export to MDNI. For more information, refer to [Implementing BAdls for MDNI in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

From SAP ERP or SAP S/4HANA, the product master is sent to SAP Integration Suite, managed gateway for spend management and SAP Business Network through the proxy, **Product Master** (technical name ProductMDMBulkReplicateRequest_Out). Using **Transaction Tracker** in SAP Integration Suite, managed gateway for spend management and SAP Business Network, you can monitor the product master export using the MDNIProductExport document type.

[Prerequisites and Restrictions \[page 94\]](#)

Prerequisites and Restrictions

Prerequisites

Ensure that the following requirements are met:

- SAP Ariba Procurement solutions is integrated with SAP ERP using SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- MDNI is integrated with SAP Ariba Procurement solutions. To enable this feature, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.
- MDNI is enabled on SAP ERP. For more information, see [Configuring End-Points to Integrate with MDNI in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#)

Restrictions

- Product master export to MDNI is not supported for sites where only SAP Ariba strategic sourcing solutions are deployed.
- FPC (Federated Process Control) is not supported.
- Adding custom fields to the extracts are not supported.
- Incremental export is not supported for the following objects. Only the full load export is supported for these master data objects.
 - Company Codes
 - Cost Centres
 - Plant
 - Asset/Asset Class
 - Material Group
 - Purchasing Organizations
 - Exchange Rate
 - Purchasing Group
 - Internal Order
 - Currency
 - Plant Purchasing Organization
 - Tax Codes
 - Payment Terms
 - Account Account Category
- The product master export to MDNI using SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the following:
 - Export of the following items:
 - Material classification data
 - Material AML data
 - Material valuation data
 - Export of product master in batches for incremental loads of data. This is because the flushing of entries from the ARBCIG_CHANGEDOC table based on various filters is not supported.

Transactions for SAP Business Network

The following sections gives an overview of the transactions for SAP Business Network.

[Supported Transactions and cXML Interfaces \[page 95\]](#)

[Integration Support to Enable Clinical Trial Collaboration \[page 252\]](#)

Supported Transactions and cXML Interfaces

The following section lists the transactions and cXML interfaces that are supported on SAP Business Network.

You must configure your SAP ERP and SAP S/4HANA system to send and receive transactional documents.

Outbound Transactions for SAP Business Network

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports following outbound transactions from SAP ERP or SAP S/4HANA to SAP Business Network:

ⓘ Note

SAP Integration Suite, managed gateway for spend management and SAP Business Network withdraws the out-of-the-box attachment support for the following transactions because neither the source (SAP ERP or SAP S/4HANA) nor the target (SAP Business Network) of these transactions supports attachments:

- (FI-based) ERP-initiated invoice
- (MM-based) ERP-initiated invoice
- Invoice status update
- Payment proposal
- Service sheet response
- ERP-initiated service entry sheet
- Receipt request

[Purchase Requisition \[page 96\]](#)

[Purchase Order \[page 97\]](#)

[Stock Transport Order \[page 119\]](#)

[Order Enquiry \[page 129\]](#)

[Scheduling Agreement Release \[page 130\]](#)

[ERP-Initiated Invoice \[page 133\]](#)

[ERP-Initiated Service Entry Sheets \[page 138\]](#)

- [Receipt \[page 140\]](#)
- [Ship notice \(Component ship notice\) \[page 143\]](#)
- [Invoice status update \[page 145\]](#)
- [Scheduled payments \[page 146\]](#)
- [Payment remittance \(outbound\) \[page 148\]](#)
- [Payment Remittance Batch \[page 151\]](#)
- [Product Activity Message \[page 158\]](#)
- [Service Sheet Response \[page 169\]](#)
- [Bill of Materials \[page 170\]](#)

Purchase Requisition

A purchase requisition is the first step in a procurement process. A purchase requisition is a request to purchase items. A requisition can consist of multiple line items. You send requisition documents to the SAP Ariba Procurement solutions through SAP Business Network. After the requisition is processed into an order, the purchase order is sent to the appropriate supplier through SAP Business Network.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), you can enable purchase requisition integration for a specific set of suppliers and company code combination.

You can maintain these specific vendors in the **Activate Additional Outbound Messages for Specific Vendors** table (the ARBCIG_OB_VENDOR database table) in the **Maintain Vendor for the Outbound Transaction** node in SPRO.

In the **Activate Additional Outbound Messages for Specific Vendors** table, you can maintain only a subset of the vendors that you have maintained in the **SAP Business Network Vendor Table** (the BN_VENDOR table).

ⓘ Note

If you have not maintained any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table, the purchase requisition transaction is integrated with SAP Business Network for all the suppliers in the **SAP Business Network Vendor Table** table.

For more information, refer to [Maintaining Specific Vendors and Company Codes as Recipients of Transactions](#) in *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

Prerequisites

- You must perform the following actions on SAP ERP:
 - Enable SAP Integration Suite, managed gateway for spend management and SAP Business Network on SAP Business Network. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Business Network](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide*.
 - Configure the parameters for purchase requisition. For more information, see [Maintaining Parameters and Prefilters for Requisition](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

- Run the program to send purchase requisitions to SAP Business Network from SAP ERP.

Restrictions

- Integration of service requisitions with SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network is not supported.

Purchase Order

Buyers create a purchase order to request for products or services using their SAP ERP or SAP S/4HANA system and send them to suppliers on SAP Business Network. SAP Business Network then routes the purchase order to the appropriate supplier using the supplier's preferred order routing method.

Buyers can send the following types of purchase orders:

- Standard purchase orders
- Blanket purchase orders
- Scheduling agreement release purchase orders
- Service purchase orders
- Planned lean services and lean services with item hierarchy
- Subcontracting purchase orders
- Consignment purchase orders
- Purchase orders with return items

If there is a change to the items in the purchase order, the buyer can send a change purchase order to a supplier. Buyers can also cancel purchase orders.

When a buyer sends a purchase order from the SAP ERP system to SAP Business Network, the purchase order contains the following information:

- Company code
- Purchasing org. and purchasing group
- Batch-managed material items

Buyers and suppliers can sort and filter purchase orders by using the company code, purchasing org., or purchasing group. Buyers can find purchase orders related to the different company entities or commodities in the purchasing group.

Buyers can send XML and MIME attachments in the copies of purchase orders (CopyRequest). Buyers can download the MIME envelope and the attachments from the **Transaction Tracker** on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal.

When buyers send a purchase order (OrderRequest cXML document) to SAP Business Network, SAP Business Network responds with a synchronous cXML document that contains one of the following status codes:

- 2xx, to indicate that SAP Business Network has accepted the document.
- 4xx, to indicate that a permanent error has occurred and that the error has been logged.
- 5xx, to indicate that a transient error occurred. The SAP Integration Suite, managed gateway for spend management and SAP Business Network then resends the document with the same payload ID for the specified number of retry attempts.

If you create a purchase order, scheduling agreement, or scheduling agreement release document for materials that have an MRP controller assigned to it, the MRP controller and MRP controller name are sent to SAP Business Network.

You can control sending your accounting information to your supplier. For more details, see [Controlling Sending Your Accounting Information to the Supplier in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

The purchasing documents such as purchase order, scheduling agreement, and scheduling agreement release documents send the confirmation control keys configured (in the SPRO configuration) by the buyer to SAP Business Network. Purchase order, scheduling agreement, and scheduling agreement release documents send the item price tolerance only when the **Adopt price variance** flag is set in **Confirmation Control sequence** in the SPRO configuration.

You can convert dates on outbound documents to plant-specific time zone, by enabling the **USE_PLANT_TIMEZONE** parameter. For more information, see [Converting Dates on Transaction Documents to Plant-Specific Time Zone in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Note

After SAP Business Network receives the purchase order, it sends the buyer a generic response acknowledging that the purchase order is received.

Buyers can use BRFplus output management to configure the output parameters for purchase orders in the SAP S/4HANA on-premise systems. For more information, see [BRFplus Output Management \[page 250\]](#).

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), when there is a change in non-print relevant fields, you can prevent sending of change purchase orders from SAP ERP or SAP S/4HANA to suppliers on the SAP Business Network. By de-selecting non-print relevant fields, you can:

- Prevent sending multiple change purchase orders to suppliers when you make changes to fields not relevant for print. For example, **InfoUpdate** indicator in a purchase order.
- Eliminate the need for suppliers to confirm change orders that contain fields not relevant for print.
- Prevent sending change purchase orders with changes to fields that are internal to your organization.

For more information about selecting print-relevant fields for change purchase orders output, see [Selecting Print-Relevant Fields for Change Purchase Orders Output in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Enhancements to the OrderRequest cXML Transaction Document

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2011 (Q4 2020), buyers can send information about the following in the `OrderRequest` cXML document for purchase orders, scheduling agreements, and scheduling agreement releases:

- One or more comments at the header level and line item level
 - SAP Integration Suite, managed gateway for spend management and SAP Business Network supports line breaks in comments. The **Order Details** page on SAP Business Network displays the first five comments. You can click the [More Comments](#) link to view the additional comments. Buyers and suppliers can also download the cXML file to view all the comments.

- The `Comments` element supports the “type” attribute. You can use this attribute to provide additional information about the comment. The `OrderRequest` cXML file contains the attribute value.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network maintains the order of the text IDs in the same sequence that you specify in the [Cross References > Parameters](#) page.
- When a buyer deletes the comments (text) on SAP ERP after sending the purchase order or scheduling agreement to SAP Business Network, SAP ERP does not send the comments that were deleted as part of the subsequent versions of the transaction documents.
- The `unlimitedDelivery` attribute for material items in purchase orders. This attribute indicates that the line item supports unlimited quantities while processing ship notices. The `OrderRequest` cXML file contains the attribute value.
- The Kanban indicator, `isKanban` for material items for SAP Business Network for Supply Chain. SAP Ariba identifies the material items used for the Kanban process with the Kanban indicator. The `OrderRequest` cXML file contains the attribute value.
- The `isItemChanged` attribute to indicate changes to line items. This attribute requires you to implement a BAdI to support changes to line items. The `OrderRequest` cXML file contains the attribute value.

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2108 (Q3 2021), buyers can send information about the `Sold-To` and `VAT_ID` fields in the `OrderRequest` cXML document for purchase orders, scheduling agreements, and scheduling agreement releases. Also, see [Prerequisites for Purchase Order \[page 114\]](#)

In a typical purchasing process, the company that places an order for goods or services is referred to as the `Sold-To` party. For example, if the headquarter of the company is placing orders for its branches, the headquarter is considered as the `Sold-To` party. In a purchase order, scheduling agreement, or a scheduling agreement release, the purchasing organization represents the `Sold-To` party.

After buyers enable this feature, the `Sold-To` party information in purchase orders, scheduling agreements, and scheduling agreement releases from SAP ERP or SAP S/4HANA are mapped to the `OrderRequest` cXML document. With this mapping, buyers can send `BuyerPartyID` and `SupplierPartyID` information in purchase orders, scheduling agreements, and scheduling agreement releases to integrate with the supplier's SAP ERP or SAP S/4HANA and suppliers can create invoices with appropriate `Sold-To` party addresses.

The buyers can also send `VAT_ID` in purchase orders, scheduling agreements, and scheduling agreement releases and map it to the `OrderRequest` cXML document.

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2511 (Q4 2025), the `OrderRequest` document is enhanced to map the new fields in IDoc and cXML documents. You can populate these new fields using user exit, `EXIT_SAPLEINM_011`.The `AUTHORIZEDUSERTYPE`(IDoc), that specifies the type of user citizenship allowed to view the document, is mapped to `documentVisibility` (cXML) and `ACKNOWLEDGEMENTREQUIRED` (IDoc) is mapped to `acknowledgementRequired` (cXML), that specifies whether a DPAS-rated order requires acknowledgement.

Note

This capability is exclusively available within the FedRAMP environment and not for commercial customers.

The `OrderRequest` cXML structure is enhanced with two new compliance attributes:

- `documentVisibility`, introduced as a domain value in the `IdReference` attribute within `AuthorizationLabels`, which specifies the type of user citizenship allowed to view the document.

2. acknowledgementRequired, added as a new attribute in the AerospaceAndDefense industry element at the OrderRequestHeader level. When set to **yes** (default), the order requires acknowledgement. This attribute is mandatory for DPAS-rated orders.

The IDoc structure is enhanced under the main segment E1ARBCIG_ADEF_HDR with two new compliance fields:

1. AUTHORIZEDUSERTYPE, introduced through a new sub-segment E1ARBCIG_ADEF_AUTHUSER linked to the header. Customers can populate these new fields using user exit EXIT_SAPLEINM_011.
2. ACKNOWLEDGEMENTREQUIRED, added directly to the header segment, which specifies whether a DPAS-rated order requires acknowledgement (Yes or No based on ERP version relevance).

Integration to Support Mapping of External Document Types to SAP Business Network

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_September 2019, the buyers can define external document types (customized document types) for purchase orders in SAP ERP or SAP S/4HANA. The external document types refer to documents managed in an external system. These external document types are used for creating purchase orders for special purposes such as rush orders. After you create a purchase order in the **Material Management** section in SAP ERP, you can view the external document types and their descriptions that you have defined in SAP ERP along with the document types used for standard purchase orders. You can apply these external document types to purchase orders that you create.

This feature enables you to integrate the external document types for purchase orders that you have created in SAP ERP along with the document types used for standard purchase orders with SAP Business Network and SAP Business Network for Supply Chain using SAP Integration Suite, managed gateway for spend management and SAP Business Network. After this integration, a purchase order in SAP Business Network displays the customized document type and its description that you have applied to that purchase order in SAP ERP or SAP S/4HANA.

The suppliers can view the doc type and the description of the external document type on SAP Business Network in the following locations:

- In the **Order details** tab of the purchase order.
- In the **Orders and Releases** tab of **Inbox**. The **External Document Type** column in the **Orders and Releases** tab displays the customized doc type code.

Integration to Support Sending Work Order-Based Purchase Orders to SAP Business Network

This feature enables buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network to send work order-based information in purchase orders sent from SAP ERP or SAP S/4HANA to SAP Business Network. SAP Integration Suite, managed gateway for spend management and SAP Business Network maps the work order ID at the accounting level and equipment ID at the line item level in the purchase orders sent from SAP ERP or SAP S/4HANA to SAP Business Network.

Companies create a plant maintenance order or work order in SAP ERP for preventive maintenance or repairing the machines in the plant or shop floor. A work order can have materials and services. After the work order is created, a requisition gets automatically created in SAP ERP. A purchase order will be created from the purchase requisition. The **work order ID** and **equipment ID** will be present in a purchase order only if the purchase order is created with reference to a purchase requisition that was generated from a work order in SAP ERP or SAP S/4HANA.

This feature enables SAP Business Network to include the work order information originating from the Plant Maintenance module of SAP ERP or SAP S/4HANA.

SAP Integration Suite, managed gateway for spend management and SAP Business Network maps the work order ID at the accounting level and equipment ID at the line item level in the purchase orders sent from SAP ERP or SAP S/4HANA to SAP Business Network.

ⓘ Note

Suppliers can import master data and export transactional data from SAP Business Network to SAP ERP using the SAP Process Integration layer through the Direct Connectivity integration method.

Restrictions

- If one purchase order line item has multiple work orders, SAP Integration Suite, managed gateway for spend management and SAP Business Network populates only the equipment ID linked to the work order associated with the referenced purchase requisition line item. No other equipment IDs are populated.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support sending other details like Functional Location, Equipment Serial Numbers, and Equipment Descriptions.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not map the fields such as IsReferencedAsset, Location, Serial Number and TagNumber. Placeholders for these fields are provided in the IDoc segment, customers can use customizations to populate these fields using user exits.
- The IsReferencedAsset, Location, Serial Number and TagNumber fields are not mapped in standard mapping, customers can use the custom mapping tool on SAP Integration Suite, managed gateway for spend management and SAP Business Network to map these fields.
- The **Work Order ID** and **Equipment ID** are sent only in Purchase Order from SAP ERP or SAP S/4HANA to SAP Business Network. Subsequent transaction documents do not consume the work order ID and equipment ID details.
- SAP Ariba Buying does not support purchase orders that have work orders.

Enable Indicating Line Items Deleted in the Purchase Order

SAP Integration Suite, managed gateway for spend management and SAP Business Network provides integration support for the supplier to view the line items deleted by the buyer in the purchase order. The buyer can decide on suppliers who should receive the purchase order with line items marked as deleted.

A new indicator, **Deleted**, has been introduced for suppliers to indicate the line items deleted. This indicator is visible for only those suppliers for whom the buyer has customized to send the purchase order item with the delete indicator by enabling the **PO Ln Itm Del Ind** field in SAP Integration Suite, managed gateway for spend management and SAP Business Network. If this field is not enabled, a purchase order with line items deleted is received as a modified purchase order by suppliers, without indicating the line items deleted.

ⓘ Note

Only the ANSI X12 and EDIFACT message types are supported for integrated suppliers.

For more information on configuring this feature, please see [Implementing a Customer Exit for Purchase Orders and Enabling Vendors](#).

Support for Version Integration for Purchasing Documents Between SAP ERP and SAP Business Network

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports purchasing document version integration with SAP Business Network. The purchase order, scheduling agreement, and scheduling agreement release documents sent from SAP ERP and SAP S/4HANA to SAP Business Network will reflect the version numbers maintained on SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP ERP.

The SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP ERP generates a payload ID and updates the version number based the successful output generated for the corresponding purchase order, scheduling agreement, and scheduling agreement release documents sent to SAP Business Network.

The following table lists a few document scenarios and the version update results for them:

Scenario	Version Update Behavior
Purchasing documents migrated from SAP Business Suite Add-On.	The version history is also migrated along with purchasing documents. The SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP ERP generates a new version number in continuation to the version number that was already generated prior to migration.
Purchasing documents migrated from Ariba Network adapter for SAP NetWeaver to SAP Integration Suite, managed gateway for spend management and SAP Business Network.	No version details are sent for purchase order. For scheduling agreements and scheduling agreement release, the item level release number is sent as the version number.
Purchasing documents migrated from older versions to the latest version of SAP Integration Suite, managed gateway for spend management and SAP Business Network.	No version details are sent for purchase order. For scheduling agreement release, the item level release number is sent as the version number.
New purchasing documents	Version number starts with 1 and gets incremented with every successful output.
Repeat output	Version number gets incremented by 1.
Change document	Version number gets incremented by 1.
Delete document	For purchase order, the previous version number saved in the version table is sent.

Blocking Purchase Order line Items

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP ERP, Release 2505 (Q2 2025, SP 23), buyers can block line items in purchase orders by configuring the ItemOut indicator.

Note

You'll need to add reasons for blocking a purchase item.

This feature adds the following to the `ItemOut` element in an `OrderRequest` document:

- `operation="block"` attribute – When this attribute is included in an `ItemOut` element, the line item is blocked in the purchase order.

To configure the feature, refer to [Blocking Purchase Order Line Items](#).

Closing Purchase Order Line Items

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP ERP, Release 2505 (Q2 2025, SP 23), buyers can close line items in purchase orders by configuring the `DeliveryCompleted` indicator. To configure the feature, refer to [Closing Purchase Order Lines](#).

cXML Changes

A new attribute `DeliveryCompleted` indicates that the message type is **Error** or **Warning**. The attribute is mapped out to the indicator element in the Order Request cXML and SAP Business Network marks the **Line Items** as **Closed**.

When buyers set the `DeliveryCompleted` indicator to `error`, the open purchase quantity item becomes zero even if the entire shipment is not completed. SAP Business Network fails any document created against the closed line item when the `DeliveryCompleted` indicator to `error`.

When buyers set the `DeliveryCompleted` indicator to `warning`, suppliers can continue creating documents against the closed line item.

[Blanket Purchase Order \[page 103\]](#)

[Service Purchase Order \[page 104\]](#)

[Subcontracting Purchase Order \[page 108\]](#)

[Maintain Confirmation Control Keys \[page 111\]](#)

[Consignment Purchase Order \[page 113\]](#)

[Returns in Purchase Orders \[page 113\]](#)

[Prerequisites for Purchase Order \[page 114\]](#)

[Restrictions \[page 117\]](#)

Blanket Purchase Order

Buyers can create and send blanket purchase orders from the SAP ERP system to suppliers on the SAP Business Network. The blanket purchase order or the change blanket purchase order contains line items that specify the item category B (Limit) only.

You can also create a blanket purchase order having line items that specify the item category B against a single or multiple outline agreements (OLA).

The cXML blanket purchase orders sent to SAP Business Network contain the value `orderType="blanket"`. Additionally, the blanket purchase order also includes the `Validity Start` (`cXML field:effectiveDate`) and `Validity End` (`cXML field:expirationDate`) details for SAP Business Network to successfully

process blanket purchase orders. Suppliers can use these purchase orders of type “blanket” to create order confirmation and ship notices on SAP Business Network.

SAP Business Network rejects purchase orders having line items that specify different item categories.

Schedule Lines in Purchase Order and Change Purchase Order

Buyers can specify multiple delivery schedules for a line item in a purchase order or change purchase order that they send suppliers on SAP Business Network. This allows buyers to schedule the delivery of line items that needs to be supplied repeatedly over a period of time.

Each line item can have different quantities and multiple delivery dates and times. If there are multiple delivery schedules for a line item in a purchase order, buyers can sequentially number each delivery schedule. This would ensure that SAP Business Network receives the delivery schedules numbered sequentially. The mappings between the schedule lines are stored in: /ns0:Messages/ns0:Message2/cXML/Request/OrderRequest/ItemOut/ScheduleLine/@lineNumber1.

When a purchase order containing changes to the schedule lines is sent to a supplier, the newly added, deleted, or edited schedule lines are highlighted in the change purchase order on SAP Business Network.

Support for Temporary Price and Planned Inspection Days in Purchase Orders

Buyers can send the temporary price and planned inspection days for acceptance of goods in purchase orders and subcontracting purchase orders to suppliers or subcontractors on SAP Business Network. The **Temporary Price** field in the purchase order allows buyers the flexibility to request for goods with a temporary price or without a unit price for the line item. The **Planned Acceptance Days** field allows buyers to specify the date by which the buyer inspects and accepts the goods sent by the supplier.

While creating standard purchase orders or subcontracting purchase orders, buyers can do the following:

- Specify the date in the **Latest GR date** and **GR.proc.time** fields on the **Delivery** tab of the purchase order.
- Check **Estimated Price** in the **Condition Control** tab.

Service Purchase Order

Buyers can create a purchase order item of type service which contains line items for services. Purchase orders with lines that specify category D are considered as service purchase orders and sent to suppliers on SAP Business Network.

Hierarchy in Service Purchase Orders

Buyers using SAP ERP 6.0 EHP 0 can send service purchase orders with a single-level hierarchy (one parent and child line item). However, buyers using SAP ERP 6.0 EHP 4 and higher can send service purchase orders with service line items in up to five levels of hierarchy (1 parent and 4 child levels).

When a purchase order item of type service contains line items with a hierarchy, SAP ERP and SAP S/4HANA provide line item numbering information that reflects both a service item's parent and the service item number. The SAP ERP or SAP S/4HANA add-on, transmits this information to SAP Business Network for both purchase orders and change orders. Any changes or deletions made to a top-level service line or to the service items below a top level service line, including price and quantity limits, are transmitted to SAP Business Network.

Service Line Types

The add-on supports transmission of the following additional service line types in service purchase orders with planned service hierarchies from SAP ERP or SAP S/4HANA to suppliers on the SAP Business Network:

- Blanket (Blanket LineConting.)
- Contingency
- Informatory

The add-on also supports planned lean services and lean services with item hierarchy.

The following table maps each service line type between SAP ERP or SAP S/4HANA and SAP Business Network:

Table 2: Supported Service Line Types Mapping Between SAP ERP or SAP S/4HANA and SAP Business Network

SAP ERP and SAP S/4HANA	SAP Business Network	Description
Blanket (Blanket LineConting.)	Amount-Based	<p>Describes a service without specifying quantity. You can create multiple service sheets and invoices from a blanket service line type.</p> <p>Note</p> <p>Quantity for service lines with blanket line types is 1, by default as per the standard SAP ERP and SAP S/4HANA functionality.</p>
Contingency	Contingency	<p>Describes a service that is not essential to perform an order. The value of the contingency line is included in the total value of the Bill of Services (BOS) only if the contingency line item is enabled while creating a service sheet or an invoice. This type of service line is disabled by default in SAP Business Network. The contingency service line amount is not included in the net price calculation for the item.</p>

SAP ERP and SAP S/4HANA	SAP Business Network	Description
Informatory	Information	This type of service line is used to provide additional information about any other service line.

Setting Spend Limits on Service Purchase Orders with Unplanned Spend

Buyers can set the overall limit and the expected value to support spend limits on service purchase orders with unplanned spend from SAP ERP or SAP S/4HANA to SAP Business Network. Unplanned spend on service purchase orders refers to spend on service line items whose nature and scope are not initially known and whose details might not be completely described in the early phase of the procurement process. Unplanned service lines include a mandatory overall limit (maximum amount) and, starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_September 2019, limits for unplanned service contracts and other unplanned service items. Buyers can set limits for unplanned service contracts and other unplanned service items separately and integrate these price limits in a service purchase order with SAP Business Network using SAP Integration Suite, managed gateway for spend management and SAP Business Network. The total price of the line items – including the unplanned service contracts, and the other unplanned service items – must not exceed the value limit set for the unplanned services in the **Overall Limit** field of the service purchase order. After the integration, when suppliers in SAP Business Network provide services against an unplanned service contract or an unplanned other service item, the net price must not exceed the individual limits that buyers have set for these items.

If the supplier exceeds any of these limits, the service sheets that the supplier sends to buyer's SAP ERP fails in SAP Business Network. In SAP Business Network, suppliers can see the error messages based on the limits that they have crossed.

For example, in a service purchase order, you can set the following limits:

- The overall limit of the service purchase order is set as USD 7000.
- The limit for the unplanned service contract is set as USD 2500.
- The limit for the other unplanned service items is set as USD 3000.

If the supplier in SAP Business Network specifies an unplanned service contract of net price USD 2000 or an unplanned service item of net price USD 2800, they can send the service sheet for that line item successfully. This is because the net prices for the service contract or service item do not exceed the individual limits set for the unplanned service contract or other unplanned service items in the service purchase order. These prices also do not result in exceeding the overall limit set for the service purchase order.

If the supplier specifies USD 2700 for the unplanned service contract, the service sheet fails in SAP Business Network with the following error message. This is because the net price exceeds the limit set for the unplanned service contract.

The cumulative sum of the unplanned subitems exceeds the limit set for contract spend.
Note: The limit will not be disclosed.

If the supplier specifies USD 3500 for the unplanned service items, the service sheet fails in SAP Business Network with the following error messages. This is because the net price exceeds the limit set for the other unplanned service item.

The cumulative sum of the unplanned subitems exceeds the specified ad hoc limit. Note: The limit will not be disclosed.

The cumulative sum of the unplanned subitems exceeds the limit set for contract spend. Note: The limit will not be disclosed.

If the supplier specifies USD 3000 for the unplanned service contract and USD 4500 for the unplanned service item, the service sheet fails in SAP Business Network with the following error messages. This is because the net prices set for the unplanned service contract and the other unplanned service items exceed their individual limits. This also results in exceeding the overall limit set for the service purchase order.

The cumulative sum of the unplanned subitems exceeds the specified ad hoc limit. Note: The limit will not be disclosed.

The cumulative sum of the unplanned subitems exceeds the limit set for contract spend. Note: The limit will not be disclosed.

The serviced amount under this line exceeds limit.

Unplanned spend exceeds the overall limit.

ⓘ Note

In SAP Business Network, the supplier can only enter the net price for an unplanned service item. However, the validation of this net price occurs against the limits of unplanned service contracts and other unplanned service items set in the service purchase order.

The following table describes different field names that identify the service purchase order spend limit in SAP ERP or SAP S/4HANA and SAP Business Network:

Table 3: Field Name Mapping Between SAP ERP or SAP S/4HANA And SAP Business Network

SAP ERP and SAP S/4HANA	SAP Business Network	Description
Overall Limit	Maximum Amount	Specifies the overall limit allowed for the service item. Additionally, the expected value or the total amount for a service line item cannot be greater than the overall limit.
Expected Value	Expected Amount	Specifies the estimated amount to procure a service item.

When buyers create or update service purchase orders with unplanned service line items, SAP ERP or SAP S/4HANA responds as follows:

- **Expected Value** (`ExpectedUnplanned`) is always sent to SAP Business Network.
- **Overall Limit** (`MaximumUnplanned`) is sent to SAP Business Network only if **No Limit** is **not** selected.

Related Information

[Service Purchase Orders for Simplified Procurement of Services \[page 108\]](#)

Service Purchase Orders for Simplified Procurement of Services

Buyers integrated with SAP Business Network, SAP Ariba Procurement solutions, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can enable simplified procurement of services. This capability enables buyers to create service requisitions and service purchase orders without adding child items, and enables suppliers to invoice these orders without submitting service sheets. This capability simplifies and expedites the invoicing process for service orders.

ⓘ Note

External budget checks for requisitions created with the simplified procurement of services capability enabled work for SAP EHP4 for SAP ERP 6.0, or later.

With the simplified procurement of service items capability, when a service purchase order created in SAP ERP is sent to SAP Business Network,

- If the **GR-Bsd IV** and **S.-Based IV** fields are deselected in the **Invoice** tab, and the **Goods Receipt Indicator** field is deselected in the **Delivery** tab, then, suppliers or buyers can directly flip the purchase order for invoicing without creating child line items and service sheets.
- If either the **GR-Bsd IV** field or the **S.-Based IV** field is selected, child line items and service sheets are required for invoicing, even if the **Allow suppliers to create invoices directly from service POs without a service sheet rule** is enabled.

Related Information

[Service Purchase Order \[page 104\]](#)

Subcontracting Purchase Order

A subcontracting purchase order is a purchase order for the material that has been contracted to a third-party manufacturer. A buyer sends a subcontracting purchase order to a contract manufacturer supplier on SAP Business Network. A contract manufacturer supplier is a registered contract manufacturer on SAP Business Network.

Buyers send the raw components that are required to manufacture finished goods to the contract manufacturer suppliers on SAP Business Network. This helps buyers to reduce costs by transferring the manufacturing of the goods to third-party contract manufacturers. The contract manufacturer suppliers manage the flow of manufacturing and processing of parts through SAP Business Network.

Buyers create a subcontracting purchase order (item category L - subcontracting) containing component items required for the manufacturing of goods. The line items in the subcontracting purchase order can contain individual components from the bill of materials and standard items. These line items can also include the following:

- Company code
- Purchasing org. and purchasing group
- Batch-managed material items
- Time tolerance to specify the date range applicable for confirming or shipping the goods.
- Quantity tolerance to specify the percentage of the quality that the buyer can accept as a variance for the over-delivery or under-delivery of the items against the subcontracting purchase order.

Note

- Buyers must configure their SAP ERP systems to send and receive transaction documents for SAP Business Network for Supply Chain.
- Buyers must also configure the rule to accept the quantity tolerance in order confirmations on SAP Business Network. For more information, see [SAP Business Network Buyer Administration Guide](#).

Buyers and suppliers can sort and filter purchase orders by using the company code, purchasing org., or purchasing group. Buyers can find purchase orders related to the different company entities or commodities in the purchasing group.

To send copy orders, buyers must set up their ERP systems for the following:

- Set partner roles and partner settings
- Relationship for the vendor and company code in the table ARBCIG_AN_VENDOR.

Buyers and contract manufacturer suppliers can view and track the components and finished goods specified in the subcontracting purchase order. Contract manufacturer suppliers on SAP Business Network can send ship notices, receipts, and reports on the consumption details of the components and the finished goods to the SAP ERP buyers.

Batch Information

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_June 2019, buyers using SAP Business Network for Supply Chain can also specify whether a material item or component material item must be managed in batches. When a buyer specifies the material item or component material item as **Batch-management** in the purchase order, the supplier must include the batch information for the material item or component material item while creating the order confirmation or ship notice on SAP Business Network. Suppliers must include the **SupplierBatchID** for the material item or component material item while creating the order confirmation or ship notice.

SAP ERP sends the material items with the batch-managed indicator check for the material item or component material item in the purchase order to suppliers on SAP Business Network.

The batch ID information helps buyers and suppliers track the shipment for components sent in batches efficiently.

[Multitier Purchase Orders \[page 110\]](#)

[Handle Units and Component Information \[page 110\]](#)

Multitier Purchase Orders

To collaborate with the subcontracting process seamlessly, buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network can send copies of the subcontracting purchase orders to other contract manufacturer suppliers and logistics providers registered on SAP Business Network. To do this, buyers must configure to send copies of the purchase orders (CopyRequest) from their supplier account to send the CopyRequest to another URL. SAP Business Network sends a copy of the subcontracting purchase orders to other contract suppliers or logistic providers registered on SAP Business Network.

For example, a buyer needs cars. . The buyer needs to collaborate with multiple suppliers (tiered suppliers) to manufacture the car. This is called a multitier ordering process. The process allows the buyer and multiple suppliers to view copies of the purchase order, order confirmation, and ship notice. The goods receipt is sent from the buyer directly to the supplier.

In this example, the following are the multitered suppliers:

- Subcontracting (component) manufacturer (Supplier A)
- Component supplier (Supplier B)

The buyer sends a subcontracting purchase order to Supplier A (Component manufacturer). The buyer also sends a regular purchase order for wheels to Supplier B (Component supplier). Supplier A builds cars, but procures the wheels for the car from Supplier B (Component supplier). Supplier B receives a regular purchase order from the buyer. However, Supplier B delivers the wheels to Supplier A to build the car and not to the buyer. After Supplier A receives the wheels, Supplier A sends an acknowledgment to the buyer instead. The buyer receives the acknowledgment and sends a receipt to Supplier B informing them about the wheels Supplier A received.

When there is a change to the items in the subcontracting purchase order, the buyer sends a change subcontracting purchase order to the contract manufacturer supplier. The contract manufacturer supplier views the subcontracting purchase order containing the component information required for the manufacture of the finished goods.

Related Information

[Multitier Scheduling Agreements and Scheduling Agreement Releases \[page 132\]](#)

Handle Units and Component Information

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_September 2019, buyers can process material items that have been marked to include information about the following when sending purchase orders from the SAP ERP system:

- Component consumption
- Handling units in the packaging information

When buyers mark the material item to include information about the component consumption, the contract manufacturer suppliers must send the real-time consumption of components used during the production cycle to the component suppliers on SAP Business Network.

Buyers can specify the material items to include information about the handling units in the packaging information. The material items can also be packed in batches. When buyers create packaging instructions for material items on the SAP ERP system, the packaging instructions contain detailed information of how to pack the material items for shipping. Packaging instructions help in associating the handling units automatically. For more information, see the section, [Packaging Information with Handling Units \[page 181\]](#).

Maintain Confirmation Control Keys

Buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network or integrated with SAP Business Network for Supply Chain can use confirmation control keys to handle and validate order confirmations and ship notices effectively. When buyers configure the confirmation control key in purchase orders, buyers can enforce or restrict suppliers to create order confirmations and ship notices. This configuration is particularly useful for buyers that require advance notification about the expected delivery date and shipped quantity.

Buyers can specify the confirmation control keys at the line item level in a purchase order. Before specifying the confirmation control keys in purchase orders, buyers must configure the following confirmation control keys on their SAP ERP system:

- AB for order confirmations
- LA for ship notices

The confirmation control keys specified in the purchase order are applied when a supplier creates an order confirmation or ship notice from their SAP Business Network account. The confirmation control keys allow buyers to override default business rules for order confirmations and ship notices configured on SAP Business Network.

For example, a buyer sends a purchase order containing critical material items with a long delivery lead time and requires suppliers to confirm all the items on the purchase order and then send a ship notice to them. The buyer configures the confirmation control keys for order confirmation and ship notices. The supplier needs to confirm all the items on the purchase order before sending a ship notice to the buyer.

When buyers specify the confirmation control keys in purchase orders, the following occurs:

Confirmation control key on ERP (example values)	Maintain AB confirmation category for order confirmation	Maintain LA confirmation category for ship notice	Acknwl.Reqd field checked in purchase order	Supplier can create order confirmation	Supplier can create ship notice
001	No	No	No	No	No
002	Yes	Yes	No	Yes	Yes
003	Yes	No	No	Yes	No
004	No	Yes	No	No	Yes
005	Yes		Yes	Required before sending a ship notice	No

Confirmation control key on ERP (example values)	Maintain AB confirmation category for order confirmation	Maintain LA confirmation category for ship notice	Acknwl.Reqd field checked in purchase order	Supplier can create order confirmation	Supplier can create ship notice
006	Yes	Yes	Yes	Required before sending a ship notice	Yes

For more information on the confirmation control keys, see the following guides in the **Product Documentation > For Users** section of the Learning Center:

- [SAP Business Network for Supply Chain Integration and Configuration Guide](#)
- [cXML User's Guide](#)

Integration to Support Tolerance Levels of the Unit Price of Materials Configured in SAP ERP

In a material purchase order in SAP ERP, the buyers can set upper and lower tolerance levels for the unit price of materials. This feature enables the buyer to integrate upper and lower tolerance levels of the unit price of materials configured using the confirmation controls at the line item level in a material purchase order in SAP ERP with SAP Business Network using SAP Integration Suite, managed gateway for spend management and SAP Business Network. Enforcing tolerance levels for the unit price of materials helps buyers avoid major deviations in price from the original order.

After you complete the integration of upper and lower tolerance levels of the unit price of materials successfully, your supplier cannot specify a unit price outside the specified tolerance levels. SAP Business Network displays an error message if the supplier specifies a unit price outside the specified tolerance levels. The purchase order confirmation that suppliers send to buyers confirms the unit price within the tolerance limits specified by buyers.

To set tolerance limit for the unit price of materials based on the confirmation controls, you can run the SPRO transaction code, navigate to  **SAP Reference IMG**  **Materials Management**  **Purchasing**  **Confirmations**, and access the IMG Activity page for **Set Up Confirmation Control**. On this page, you can specify the lower and upper tolerance limits for the unit price of the material at the line item level. From the line item in the purchase order, you must add a reference to the confirmation controls that you have configured.

The tolerance levels that you specify for the unit price of materials in buyer's SAP ERP using confirmation controls take precedence over the upper tolerance level specified in SAP Business Network using the `Apply line item unit price tolerance to order confirmations` rule.

If the supplier modified the unit conversion or the unit price quantity, SAP Business Network validates the tolerance levels of unit price based on the new price.

Note

This integration supports only the upper and the lower tolerance levels specified in percentages for the unit prices of materials.

Consignment Purchase Order

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports integration of consignment goods for SAP ERP buyers and suppliers using direct materials. Buyers and suppliers must be integrated with SAP Business Network for Supply Chain to use this functionality. Consignment goods are goods which are stored at the buyer location but are owned by the supplier. The buyer is not obliged to pay for these goods until they remove them from consignment stock. Otherwise, the buyer can usually return consignment goods which are not required.

A buyer sends consignment line items on a purchase order to the supplier. The buyer receives the consignment goods and stocks them in their own warehouse. The business process of consignment collaboration is when a buyer sends a consignment line item on a purchase order to the supplier. The supplier retains the ownership of the consignment goods until the buyer pays for the stock that is consumed. As the buyer consumes the stock and pays for it, the ownership of the consignment goods is transferred from the supplier to the buyer. This transfer of ownership or movement of components to the buyer is called consignment movement. SAP Business Network for Supply Chain allows buyers to create consignment line items on purchase orders (category K) and self-billing invoices for consignment movements, and suppliers to view and track the movement of the consignment materials, transfer ownership of stock, and create invoices.

Buyers can send the LP and LPA purchasing document type for the consignment item category in scheduling agreements. To send scheduling agreement releases, buyers must enable the rule, **Allow scheduling agreement release collaboration** in their SAP Business Network buyer account.

Returns in Purchase Orders

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports integration of returns in purchase orders for SAP ERP buyers and suppliers using direct materials. Buyers and suppliers must be integrated with SAP Business Network for Supply Chain to use this functionality.

Buyers can return goods that they have purchased from a supplier and receive credit for them. Suppliers can also cancel the credit memo sent to the buyer. The return process between an SAP ERP buyer and SAP Business Network for Supply Chain supplier can be executed using the following movement types:

- **Movement type 161 with delivery** - Here, the buyer sends a purchase order with the return indicator marked for the line item to be returned. The buyer creates an outbound return delivery with reference to the **purchase order with returns**.
- **Movement type 161 without delivery** - Here, the buyer sends a purchase order with the return indicator marked for the line item to be returned. The buyer creates an outbound goods return with reference to the **purchase order with returns**.
- **Movement type 122 without delivery** - Here, the buyer sends a standard purchase order to the supplier. The buyer creates an outbound goods receipt with reference to the **standard purchase order**.

The buyer can identify the defective materials during the following points:

- At the time of incoming inspection
- At the time of manufacturing process
- At the time of physical inventory check

Returns can occur for many different reasons, including:

- Quality issues
- Transportation damage
- Wrong product
- Incorrect dimensions

Prerequisites for Purchase Order

Purchase Orders

- To use confirmation control keys to validate delivery quantity tolerances when suppliers create ship notices against standard purchase orders, maintain the following fields in the **Confirmations** tab:
 - Choose a value in the **Conf. Control** field for the order confirmation.
 - Check the **Acknowl.Reqd** field.
- You must ensure the following to support the integration of unit price tolerance levels of materials configured in SAP ERP using confirmation control keys:
 - Enable the feature to configure the unit price tolerance levels using confirmation controls on SAP Business Network.
 - Configure the lower and the upper tolerance limits of the unit price of materials on the IMG Activity page for **Set Up Confirmation Control** in the buyer's SAP ERP.
- To support the mapping of external document types to SAP Business Network, enable the feature to configure the external document type mapping on SAP Business Network.
- To enable change purchase orders output based on print-relevant field settings:
 - Ensure that you maintain the parameter, `PRINT_REL_CHK_ENABLED` by setting **Low** to x. For more information, see [Maintaining Parameters for Purchase Orders in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
 - Configure print-relevant fields for purchase orders. For more information, see [Selecting Print-Relevant Fields for Change Purchase Orders Output in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Enhancements to the OrderRequest cXML Transaction Document

SAP ERP

- Ensure that you have the latest version of SAP Integration Suite, managed gateway for spend management and SAP Business Network release. The latest version contains changes for the cXML version 1.2.045.
- Configure the SAP ERP system for the SAP Business Network for Supply Chain integration with SAP Business Network.
- Ensure that you set up and configure your SAP ERP system to send purchase orders and to receive ship notices from SAP Business Network using SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Configure the Kanban process to send purchase orders containing the Kanban material items.
- Ensure that you define the texts for purchase orders. Maintain the text ID for the text descriptions for the **Document Header** and **Document Item** on the SAP ERP system. Ensure that you maintain the text IDs and

the **Print Sequence** for the text descriptions with unique values to send the comments in purchase orders to SAP Business Network. To define the text and maintain the text IDs, run the transaction code SPRO, and go to ► **Materials Management** > **Purchasing** > **Messages** > **Texts for Messages** > **Define Texts for Purchase Order**.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Ensure that you maintain the necessary parameters for the document type `OrderRequest` to send purchase orders.
- Ensure that you maintain the necessary parameters for the document type `ShipNoticeRequest` to send and receive ship notices.
- Ensure that you maintain the parameters and the values for the text IDs in the `OrderRequest` document in the *Cross Reference > Parameter* page. If you have multiple comments, ensure that you separate the text ID using a comma. For more information, see [Sending Multiple Text Types to SAP Business Network](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

SAP Business Network

- Ensure that you enable the necessary rules for the suppliers to receive purchase orders and send ship notices. Specify the rules in the Default Transaction Rules page in your SAP Business Network buyer account.
- Ensure that you have enabled the feature, SCC-18676 Support multiple PO and PO Item comments to support multiple comments in your SAP Business Network account.
- Use the cXML version 48 or later to send information about the `Sold-To` and the `VAT_ID` fields in the `OrderRequest` cXML document for purchase orders, scheduling agreements, and scheduling agreement releases.

Multiple Copies of Purchase Orders

- Define the partner roles and partner functions on SAP ERP to send multilayer purchase orders to other contract manufacturer suppliers on SAP Business Network.
- Implement a custom exit to send multiple copies of the subcontracting purchase orders.

Service Purchase Orders

- To use confirmation control keys to validate delivery quantity tolerances when suppliers create ship notices against service purchase orders, maintain the following fields in the **Confirmations** tab:
 - Choose a value in the **Conf. Control** field for the order confirmation.
 - Check the **Acknwl.Reqd** field.

When creating service purchase orders in SAP ERP or SAP S/4HANA, ensure that you:

- Use SAP EHP4 and above for SAP ERP 6.0 (SAP_APPL 604 SPS12 and SAP_BASIS 700 SP27) to send service item (category D) with up to five-level hierarchy (one parent item and four-level child hierarchy) in service purchase orders.
- Check **Goods Receipt** on the tab **Delivery**. If you do not check **Goods Receipt**, acceptance for service sheets cannot be done in SAP ERP or SAP S/4HANA.

- Enable the feature to configure limits for unplanned contract services and other unplanned service items in service purchase orders on SAP Business Network.
- Specify **Expected Value** when you check **No Limit**.
- Do not specify a value for the **Expected Value** that exceeds the **Overall Limit**.
- If you are creating unplanned service items, specify the limit in the item level.
- If the Business Function `LOG_MM_P2PSE_1` is not active on your SAP ERP system, your service purchase order transfer from ERP to SAP Business Network may fail.

To resolve this issue, perform any one of the following steps:

- Activate the Business Function `LOG_MM_P2PSE_1` on your SAP ERP system or
- Enable **ARIBA_SRVMAPKEY** to activate SRVMAPKEY and implement the SAP Note [2372821](#)
 - The standard field SRVMAPKEY in the SAP Table ESLL stores service purchase order Item ID information. If the SRVMAPKEY is not available, the `Item ID` does not populate correctly.
 - Do not implement the SAP Note [2372821](#) if the Business Function `LOG_MM_P2PSE_1` is activated on your SAP ERP system.

For more information about enabling **ARIBA_SRVMAPKEY**, see [Maintaining Parameters for Purchase Orders in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Subcontracting Purchase Order

- Ensure that your Software Component Version is SAP APPL 604 and higher.
- Based on the Software Component Version, you also need to install the corresponding ESR (Enterprise Service Repository) content from SAP Market Place. Ensure that you download and install the `SAP_APPL_6.XX_XX_XX.tpz` file for the SAP ERP Enterprise Services package.
- Buyers need to enable the quality tolerance rule on SAP Business Network to process quality tolerance in subcontracting purchase orders on SAP Business Network. For more information about tolerances, see [SAP Business Network Buyer Administration Guide](#).
- Configure the partner profile for scheduling agreement releases.
- Maintain condition records for scheduling agreement releases.
- Implement a custom exit for scheduling agreement releases.
- If you are sending a scheduling agreement with the JIT (Just-in-time) Delivery Schedule against a scheduling agreement release, ensure that you have maintained the value in **JIT Sched. Indicator** field as **1-Automatically**. You need to maintain this value for the material item in the Material Master-Purchasing view.
- When creating purchase orders, ensure that you maintain the following fields in the **Confirmations** tab.
 - Choose a value in the **Conf. Control** field for the order confirmation.
 - Check the **Acknowl.Reqd** field.
- Configure handling units on the SAP ERP system to include information about the packaging information handling units in the purchase order. Ensure that you define the packaging material type, packaging material group, and assign the material group to the material type in MM01 in SPRO. To do this, run the transaction code, `SPRO` and then go to, ► [SAP Customizing Implementation Guide](#) ► [Logistics – General](#) ► [Handling Unit Management](#) ► [Basics setting](#) ► .
- To send handling units in the purchase order, ensure that you maintain the parameter, `HANDLING_UNITS`. To maintain the parameter, run the transaction code, `SPRO` and then go to ► [Integration with Other SAP Components](#) ► [Managed Gateway for Spend&Network for Buyer](#) ► [SAP Business Network Integration](#)

Application Specific Settings ➤ **Purchase Order** ➤ **Maintain Parameters for Purchase Order**. SAP Ariba requires you to maintain this parameter before you send the handling unit information to SAP Business Network.

- Ensure that you configure the prerequisites for packaging information with handling units. For more information, see [Prerequisites and Restrictions for Packaging Information with Handling Units \[page 190\]](#).

Consignment Purchase Order

- Ensure that your Software Component Version is SAP APPL 604 and higher.
- You must configure the Communication Channel to use the cXML version 1.2.033 or higher.
- The purchase information record for consignment goods must exist before you create a consignment purchase order. You must maintain the tax code and net price for the supplier in the purchase information record before you order a material from a supplier, or post a goods receipt to the consignment stock. The tax code and net price are required for material valuation and accounting purposes.
- Implement custom exit `EXIT_SAPLMRMN_001` to enable Ariba Network adapter for SAP NetWeaver to map the data from the ERP system to the IDOC.
- Configure the partner profile for scheduling agreement releases.
- Maintain condition records for scheduling agreement releases.
- Implement a custom exit for scheduling agreement releases.
- If you are sending a scheduling agreement with the JIT (Just-in-time) Delivery Schedule against a scheduling agreement release, ensure that you have maintained the value in **JIT Sched. Indicator** field as **1-Automatically**. You need to maintain this value for the material item in the Material Master-Purchasing view.

Restrictions

Common restrictions

The following are the common restrictions that apply to all types of purchase orders:

- Purchase orders with conditions such as surcharge, discount, freight charges, and so on, and the subsequent mapping of these conditions to the **Modification** segment in the **OrderRequest** cXML are not supported.
- SAP Business Network does not support attachment sizes for the outbound documents exceeding 100 MB. Ensure that the sizes of the attachments for the outbound documents (**CopyRequest**) do not exceed 100 MB. Attachments can additionally have a payload of up to 40 MB.
If you attempt to exceed the file attachment size of 100 MB or 10,000 line items (40 MB) payload, SAP ERP and SAP Business Network display an error message.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the formatting of characters in the text types that you maintain for the **OrderRequest** transaction document. For example, the font styles bold italics, italics, and other styles are not supported.

Purchase orders

- The integration of the external document types in scheduling agreement is not supported.
- The integration to support unit price tolerance levels of materials configured in SAP ERP using confirmation control keys does not support following:
 - The upper and the lower tolerance levels of unit prices specified in absolute values.
 - The integration of the upper and the lower tolerance levels for the unit prices of materials in scheduling agreement.
- This integration does not support the purchase orders containing the retention percentage and the subsequent documents.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not send any pricing conditions to SAP Business Network in the purchase order or its follow-on documents. Only the price specified in the purchase order is included in the follow-on documents.

Service purchase orders

- Service purchase orders having service item (category D) with up to five-level hierarchy (one parent item and four-level child hierarchy) are not supported in SAP EHP3 and lower for SAP ERP 6.0 (SAP_APPL 603 SP11 and SAP_BASIS 700 SP27).
- SAP ERP or SAP S/4HANA does not allow internal line items for service purchase orders.
- You cannot create ERP-initiated invoices against service purchase orders.
- For service purchase orders with informative line type, suppliers in SAP Business Network cannot create service sheets and invoices.
- You cannot specify unplanned spend limits individually for each child line item in service purchase orders.
- You cannot specify multiple contract references to a single line item in a service purchase order.

Blanket purchase orders

- SAP Business Network does not support service lines in blanket purchase orders.
- SAP ERP does not send the account assignment category "U" (Unknown) in the blanket purchase orders to SAP Business Network. The invoice created in SAP Business Network against the blanket purchase order does not contain the account assignment category. As a result, the invoice IDOC fails on the SAP ERP system.

Subcontracting purchase orders

- When a buyer creates a scheduling agreement release of type LP or LPA using the Transaction code ME31L, the SAP ERP system does not create the IDOC. The SAP ERP system creates an IDOC only after a buyer maintains the delivery schedule lines on SAP ERP system using the Transaction code ME38.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network allows buyers to make changes to the purchase order sent to multiple contract manufacturing suppliers. Buyers must

ensure that they do not change the vendor and partner role while changing the purchase order as SAP Business Network does not support processing changes to these purchase orders sent to multiple contract manufacturing suppliers.

- Buyers cannot send both the Forecast Delivery Schedule and the JIT (Just-in-time) Delivery Schedule against a scheduling agreement release at the same time to suppliers on SAP Business Network.
- Bill of Material items that do not have an associated alternate component are not supported.
- Handling units are not supported in multilayer purchase orders.

Consignment purchase orders

- Once the buyer has sent the non-PO (FI) invoice, SAP Business Network business case does not support the reversal and cancellation of this invoice.
- When a buyer creates a scheduling agreement release of type LP or LPA using the Transaction code ME31L, the SAP ERP system does not create the IDOC. The SAP ERP system creates an IDOC only after a buyer maintains the delivery schedule lines on SAP ERP system using the Transaction code ME38.
- Buyers cannot send both the Forecast Delivery Schedule and the JIT (Just-in-time) Delivery Schedule against a scheduling agreement release at the same time to suppliers on SAP Business Network.

Stock Transport Order

Buyers can collaborate with trading partners for plant-to-plant stock transfer using stock transport orders and subsequent delivery functions.

The plants involved in a stock transfer can have the same or different company codes. Stock transport order between two plants with the same company code is called intracompany stock transport order and involves physical transfer of goods between two locations with delivery and without billing. Stock transport order between two plants with different company codes is called intercompany stock transport order and involves physical transfer of goods between two locations with delivery and billing.

Considerations

- If the goods received at the receiving plant is less than the quantity in the post goods issue (for example, quantity is lost or damaged), the contract manufacturer is expected to send a material receipt for the shipped quantity. A subsequent material movement transaction must be performed to record damaged or lost quantity. (Reference SAP Note # [167795](#)).
- A buyer on ERP can create multiple partial deliveries against the item in the stock transport order and each delivery is sent to SAP Business Network.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network supports replenishment delivery that contains stock transport order items from different stock transport orders.

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), you can enable receipt request integration for a specific set of suppliers and company code combination.

You can maintain these specific vendors in the **Activate Additional Outbound Messages for Specific Vendors** table (the ARBCIG_OB_VENDOR database table) in the **Maintain Vendor for the Outbound Transaction** node in SPRO.

In the **Activate Additional Outbound Messages for Specific Vendors** table, you can maintain only a subset of the vendors that you have maintained in the **SAP Business Network Vendor Table** (the BN_VENDOR table).

ⓘ Note

If you have not maintained any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table, the receipt request transaction is integrated with SAP Business Network for all the suppliers in the **SAP Business Network Vendor Table** table.

For more information, refer to [Maintaining Specific Vendors and Company Codes as Recipients of Transactions](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Enhancements to support serial numbers and modified ship notices

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2111 (Q4 2021), stock transport order integration supports serial numbers for the material and modified ship notices of types **Planned** and **Actual**.

This feature supports the intracompany and intercompany stock transfer orders in the following scenarios:

- Transfer material from the plant of contract manufacturer (CM) to the plant of the original equipment manufacturer (OEM)
- Transfer material from the plant of OEM to the plant of CM
- Transfer material from the plant of CM to the plant of another CM (with copy partner)
- Transfer material from the plant of CM to the plant of another CM (without copy partner)

Support for integrating serial numbers

In SAP, serial numbers are used to serialize the material. A serial number is assigned to an individual material to differentiate it from another material.

In the CM to OEM, OEM to CM, and CM to CM integrations, serial numbers are supported in stock transfer orders, replenishment delivery, or ship notice request. In the OEM to CM scenario, ERP buyers can enter serial numbers in stock transfer orders (purchase orders) or replenishment delivery. In the case of the CM to OEM and CM to CM scenarios, the suppliers can enter serial numbers in ship notices.

Before you create goods receipt using the transaction code MIGO in the CM to OEM scenario, you must have implemented the ARBCIG_RECEIPT_UPDATE BAdl to send the serial numbers to CM's SAP Business Network. If you create post goods receipt (PGR) from the automated inbound delivery, you don't need to use this BAdl.

ⓘ Note

For a serial number-managed material, it is expected that suppliers enter serial numbers for the entire quantity in a ship notice.

Support for including external information sources

Buyers can include URL-based links to external information sources in line items of stock transport orders. External information sources can include anything that a buyer wants to add to support an order item. Examples of such sources are supporting memos, technical drawings, or a link to a website containing item specifications. Buyers can choose to decide if they want to send the external information sources (attachments) as a copy or provide references to attachments as URL-based links.

Support for integrating modified ship notices

This feature supports modifying and canceling the ship notice of ship notice types, **Planned** and **Actual** in the supplier's SAP Business Network. This feature uses the existing cXML infrastructure for ship notices.

① Note

Only the CM to OEM and the CM to CM (with copy partner) scenarios support editing ship notices.

The following table explains the ship notices in SAP ERP or SAP S/4HANA before and after you edit them:

Ship notice (before editing)		Ship notice (after editing)	
Ship notice type	Ship notice in SAP ERP or SAP S/4HANA	Ship notice type	Ship notice in SAP ERP or SAP S/4HANA
Planned	Create replenishment delivery. (Post goods issue (PGI) or subsequent automatic in- bound delivery is not created.)	Planned	Update replenishment deliv- ery. (PGI or subsequent automatic inbound delivery is not cre- ated.)
Planned	Create replenishment delivery. (PGI or subsequent automatic inbound delivery is not cre- ated.)	Modified to Actual	Update replenishment deliv- ery, create PGI, and create au- tomatic inbound delivery.
Actual	Create replenishment delivery. create PGI, and create auto- matic inbound delivery.	Actual	Fail in SAP ERP or SAP S/ 4HANA
Actual	Create replenishment delivery. create PGI, and create auto- matic inbound delivery.	Modified to Planned	Fail in SAP ERP or SAP S/ 4HANA

① Note

If you want to update the ship notice with new data, you must delete automatic inbound delivery, reverse PGI, and reprocess the edit ship notice message in SRT_MONI, FEH, or AIF.

① Note

If you want to update the ship notice with new data, you must delete automatic inbound delivery, reverse PGI, and reprocess the edit ship notice message in SRT_MONI, FEH, or AIF.

The following table explains the ship notices in SAP ERP or SAP S/4HANA before and after you cancel them:

Ship notice (before canceling)		
Ship notice type	Ship notice in SAP ERP or SAP S/4HANA	Ship notice in SAP ERP or SAP S/4HANA after canceling it
Planned	<p>Create replenishment delivery.</p> <p>(Post goods issue (PGI) or subsequent automatic inbound delivery is not created.)</p>	Delete replenishment delivery
Actual	<p>Create replenishment delivery, create PGI, and create automatic inbound delivery.</p> <p>This result applies to new and existing ship notice that are edited.</p>	Fail in SAP ERP or SAP S/4HANA <div style="border-left: 2px solid #0070C0; padding-left: 10px;"> ① Note <p>If you want to delete the ship notice, you must delete automatic inbound delivery, reverse PGI, and reprocess the cancel ship notice message in SRT_MONI, FEH, or AIF.</p> </div>

Support for sending inventory information to SAP Business Network

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2205 (Q2 2022), stock transport order integration supports sending inventory information from the buyer's ERP system to SAP Business Network. This support provides visibility about the stock of type `In-transit` and the stock that is available at plant (`Unrestricted`) to the trading partners on SAP Business Network.

The following table explains the mapping in SAP Integration Suite, managed gateway for spend management and SAP Business Network for facilitating the integration of material stock:

Stock Transport Order type	Material stock type	cXML field
Intracompany stock transport order	Unrestricted stock	UnrestrictedUseQuantity
	Stock in transit	IntransitQuantity
Intercompany stock transport order	Unrestricted stock	UnrestrictedUseQuantity
	Stock in trans.CC	StockInTransferQuantity

With this feature, the product activity message is also enhanced to display unrestricted and in-transit stock of materials. For more information, see [Product Activity Message \[page 158\]](#).

[Prerequisites and Restrictions \[page 122\]](#)

[Workflows for Stock Transport Order \[page 123\]](#)

Prerequisites and Restrictions

Prerequisites

- Ensure that your SAP ERP and SAP S/4HANA systems are configured for stock transport orders. For more information, see [Stock Transfer Using a Stock Transport Order](#).

- Set up the following key configurations on SAP ERP and SAP S/4HANA to support stock transfer using a Stock Transport Order:
 - Buyers must configure header level message for outbound delivery that is generated based on access sequence. For example, Delivery Type and Ship To Party.
 - Buyers must configure an additional message type **SPED** to create inbound delivery automatically during the post goods issue process. (See SAP Note #[1119073](#) - FAQ: Automatic inbound delivery creation for stock transfers)
 - The issuing plant storage location must be configured for automatic Post Goods Issue against the replenishment delivery.
 - Buyers must maintain the output condition record for the stock transport order purchase orders with the **Purch. Org/Doc.Type/Supplying** access sequence for both intercompany and intracompany transports. The vendors associated with the contract manufacturers must be added in the SAP Business Network vendor table.
 - Apply [3019515](#) to recognize under delivery tolerances maintained in the Stock Transfer Order.
 - Assign the same serial number profile to a material in the supplying plant and the receiving plant.

Restrictions

The following are not supported:

- Scheduling agreements, scheduling agreement releases, return stock transport order, 1-step stock transfer procedures, stock transport order without delivery, and order confirmation approval.
- Cancellation of material receipt, editing or cancelation of advanced ship notice, adding order items to delivery, and stock transport order with different receiving plants
- Handling units and serial numbers, and POD for outbound delivery
- Multiple deliveries for one stock transport order
- Invoicing and billing for intracompany stock transport orders are not supported on SAP Business Network and must be managed on the buyer's ERP.
- Adding a new line item to an existing ship notice.
- Editing ship notice in the OEM to CM and the CM to CM (without copy partner) scenarios.
- Editing and/or canceling ship notice in case of delivery split scenarios.
- Editing and/or canceling ship notice in case of schedule line-split scenarios.
- SAP Business Network does not support the inventory of the unrestricted material managed at the storage locations.

Workflows for Stock Transport Order

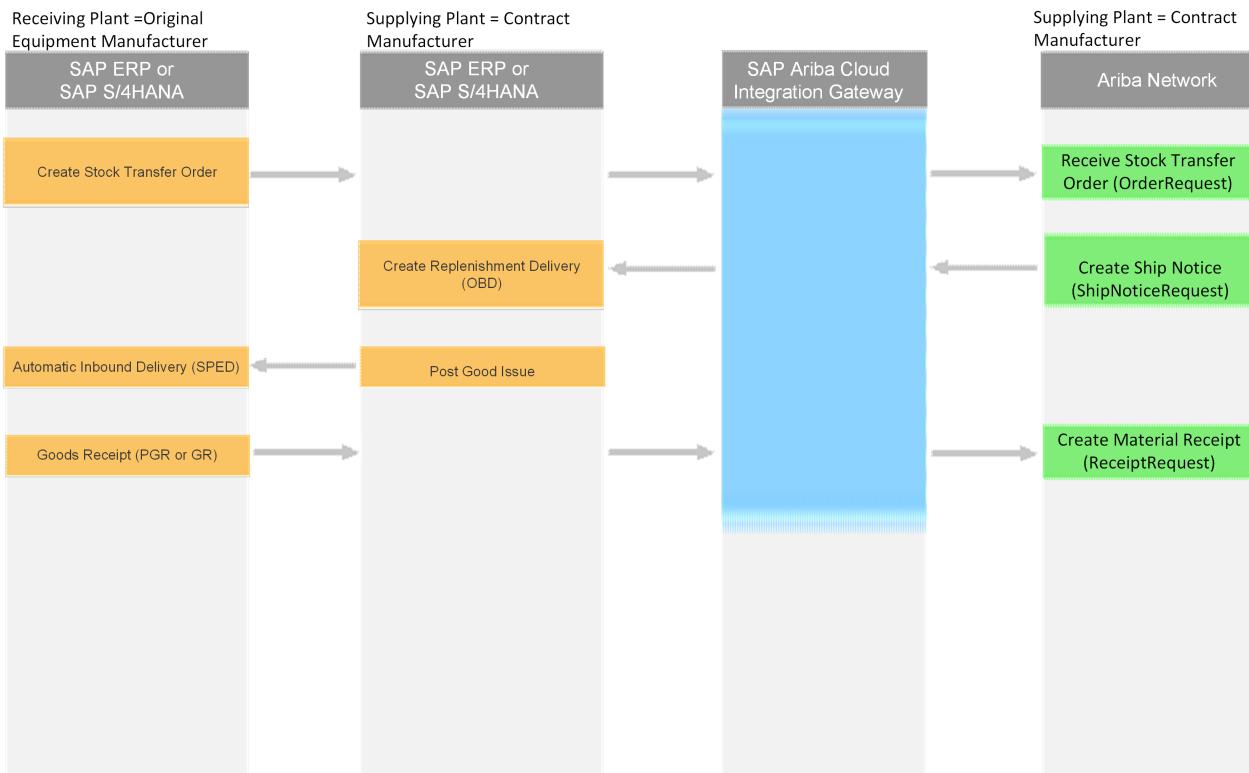
The following diagrams describes the transfer of materials from one plant to another using the stock transfer order.

- [STO with Delivery via Shipping: CM to OEM \[page 124\]](#)
- [STO with Delivery via Shipping: OEM to CM \[page 125\]](#)
- [STO with Delivery via Shipping: CM to CM \(With Copy Partner\) \[page 126\]](#)
- [STO with Delivery via Shipping: CM to CM \(Without Copy Partner\) \[page 128\]](#)

STO with Delivery via Shipping: CM to OEM

When OEM is the receiving plant and CM is the supplying plant.

STO with Delivery via Shipping (and Billing/Invoice): CM to OEM



Process Flow

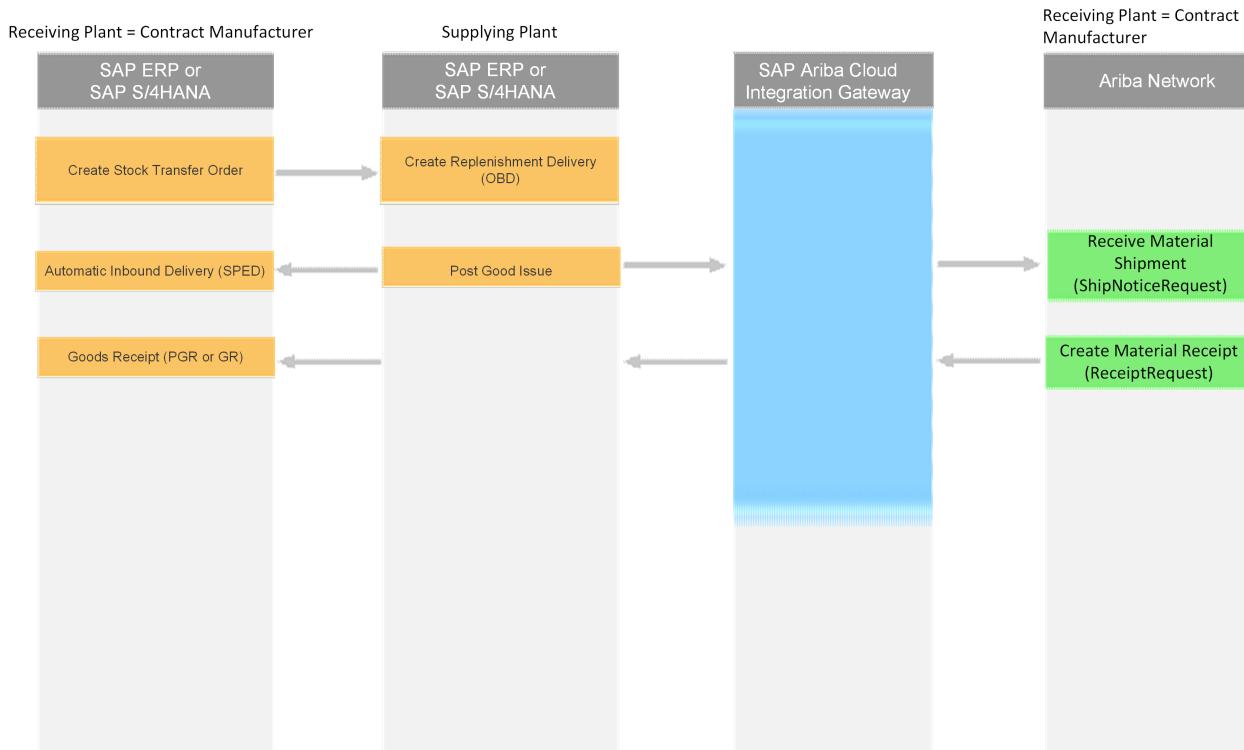
- Stock transport order in the receiving plant
The receiving plant creates a stock transport order (STO) in the ERP system with the order type Stock Transport Order and the item category U (stock transfer).
- Order request in the supplying plant
The supplying plant receives the STO request in SAP Business Network.
- Ship notice in the supplying plant
When the Contract Manufacturer (Supplying Plant) receives the STO, it ships the material and creates a ship notice on SAP Business Network confirming the shipment details. The ship notice is sent from SAP Business Network to ERP to create a replenishment delivery in the buyer's ERP.
- Outbound replenishment delivery and post goods issue in the supplying plant
An outbound replenishment delivery is created in the supplying plant and it posts the goods issue to the stock transport order.
 - Standard SAP supports partial replenishment deliveries per item if the STO item is created with the **Partial Deliv. / Item** indicator selected.

- After receiving the ship notice, replenishment delivery referencing the STO item is created and goods issue is posted for the delivery. The parameters (for example, Delivery type) required to create a replenishment delivery are derived from the STO item referenced in ship notice.
- (Optional) Automatic inbound delivery (SPED) in receiving plant
For scenarios where inbound delivery is required, ERP buyer is expected to configure automatic inbound delivery creation through the output type, **SPED** in the delivery output type configuration. Assigning standard SAP delivered requirement routine (408) to the output type (**SPED**) ensures the inbound delivery is created during PGI for replenishment delivery. The buyer on ERP has to maintain appropriate Confirmation Control key for STO item to support inbound delivery confirmation.
- Goods receipt in the receiving plant
This is a manual activity. Once the material arrives in the receiving plant, the plant posts the goods receipt. After the goods receipt posting is complete, SAP Integration Suite, managed gateway for spend management and SAP Business Network does not generate a Product Activity Message to send inventory information to SAP Business Network.
- Receipt request in the supplying plant
The supplying plant receives the material receipt request in SAP Business Network. After goods receipt is run, the Receipt Request is sent to SAP Business Network through Inventory Management Output Control configuration.

STO with Delivery via Shipping: OEM to CM

When CM is the receiving plant and OEM is the supplying plant

STO with Delivery via Shipping (and Billing/Invoice): OEM to CM



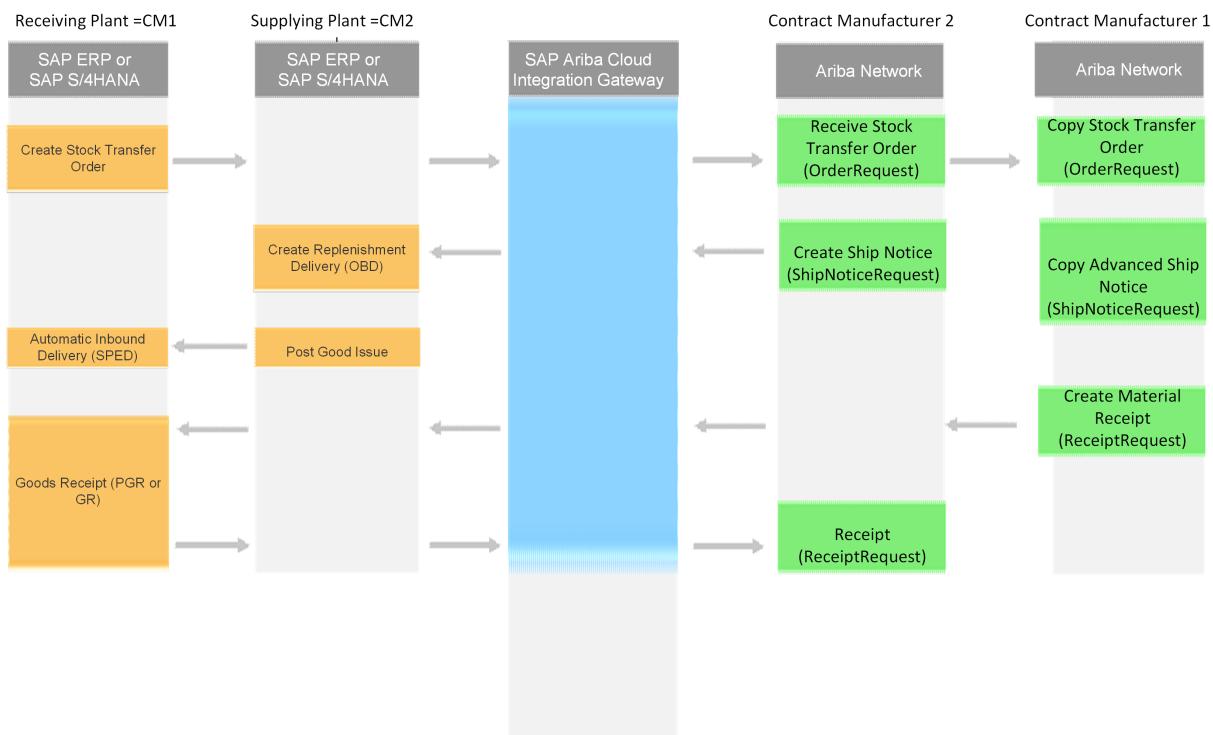
Process Flow

- Stock transport order in the receiving plant
The receiving plant creates a stock transport order (STO) in the ERP system with the order type Stock Transport Order and the item category U (stock transfer).
- Order request in the supplying plant
The supplying plant receives the stock transport order request in the ERP system. An outbound replenishment delivery is created in the supplying plant and it posts the goods issue to the stock transport order.
 - Standard SAP supports partial replenishment deliveries per item if the STO item is created with the **Partial Deliv. / Item** indicator selected.
 - After receiving the ship notice, replenishment delivery referencing the STO item is created and goods issue is posted for the delivery. The parameters (for example, Delivery type) required to create a replenishment delivery are derived from the STO item referenced in ship notice.
- (Optional) Automatic inbound delivery (SPED) in receiving plant
For scenarios where inbound delivery is required, ERP buyer is expected to configure automatic inbound delivery creation through the output type, **SPED** in the delivery output type configuration. Assigning standard SAP delivered requirement routine (408) to the output type (**SPED**) ensures the inbound delivery is created during PGI for replenishment delivery. The buyer on ERP has to maintain appropriate Confirmation Control key for STO item to support inbound delivery confirmation.
- Ship notice in the receiving plant
When the OEM (supplying plant) receives the STO, it ships the material and creates a ship notice on SAP Business Network confirming the shipment details.
- Goods receipt in the receiving plant
This is a manual activity. Once the material arrives in the receiving plant, the plant posts the goods receipt. After the goods receipt posting is complete, SAP Integration Suite, managed gateway for spend management and SAP Business Network does not generate a Product Activity Message to send inventory information to SAP Business Network.
Goods Receipt posting will be one material document.
- Receipt request in the supplying plant
The supplying plant receives the material receipt request in SAP Business Network. After goods receipt is executed, the receipt request is sent to SAP Business Network via Inventory Management Output Control configuration.

STO with Delivery via Shipping: CM to CM (With Copy Partner)

When CM1 is the receiving plant and CM2 is the supplying plant.

STO with Delivery via Shipping (and Billing / Invoice): CM to CM with Copy Partner



Process Flow

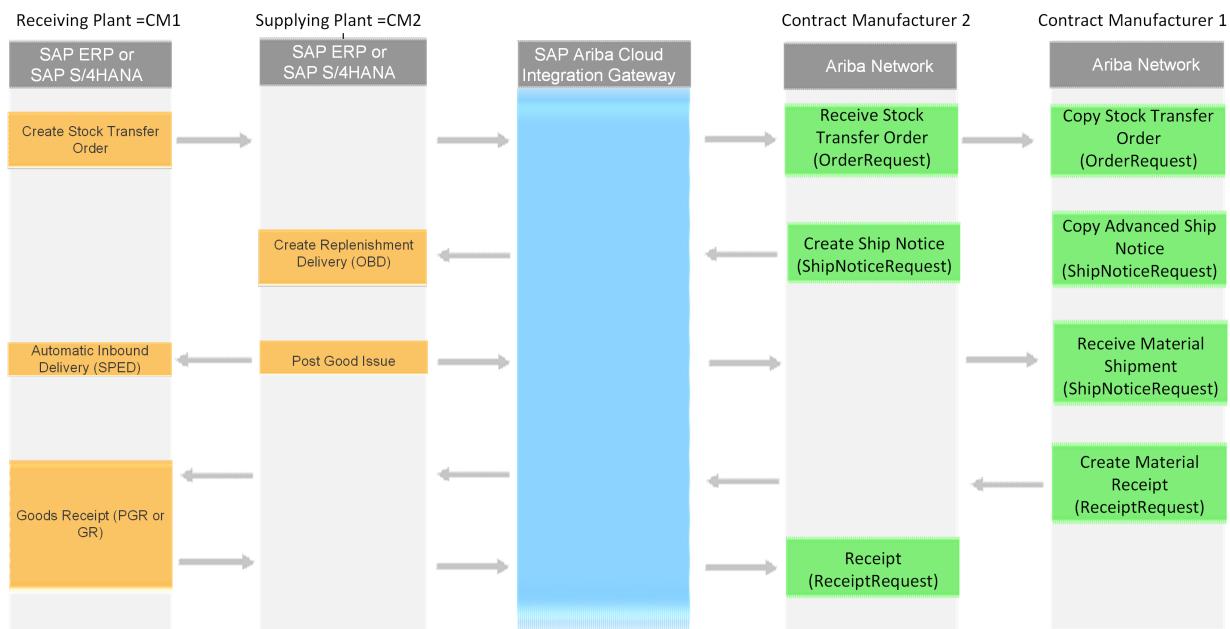
- Stock transport order in the receiving plant
The receiving plant creates a stock transport order in the ERP system with the order type Stock Transport Order (STO) and the item category U (stock transfer).
- Order request in the supplying plant
The supplying plant receives the STO request in SAP Business Network.
- Ship notice in the supplying plant
When the Contract Manufacturer2 (supplying plant) receives the STO, it ships the material and creates a ship notice in SAP Business Network confirming the shipment details. The ship notice is sent from SAP Business Network to ERP to create a replenishment delivery in the buyer's ERP.
- Outbound replenishment delivery and post goods issue in the supplying plant
An outbound replenishment delivery is created in the supplying plant and it posts the goods issue to the stock transport order.
 - Standard SAP supports partial replenishment deliveries per item if the STO item is created with the **Partial Deliv. / Item** indicator selected.
 - After receiving the ship notice, replenishment delivery referencing the STO item is created and goods issue is posted for the delivery. The parameters (for example, Delivery type) required to create a replenishment delivery are derived from the STO item referenced in the ship notice.
- Receive Material Shipment request in the receiving plant
The CM1 receives the material shipment request and a material receipt is created.

- Goods receipt in the receiving plant
Once the material arrives in the receiving plant, it posts the goods receipt. After the goods receipt posting is complete, SAP Integration Suite, managed gateway for spend management and SAP Business Network does not generate a Product Activity Message to send inventory information to SAP Business Network.
- The Goods Receipt is sent to the supplying plant.

STO with Delivery via Shipping: CM to CM (Without Copy Partner)

When CM1 is the receiving plant and CM2 is the supplying plant.

STO with Delivery via Shipping (and Billing / Invoice): CM to CM without Copy Partner



Process Flow

- Stock transport order in the receiving plant
The receiving plant creates a stock transport order in the ERP system with the order type Stock Transport Order (STO) and the item category U (stock transfer).
- Order request in the supplying plant
The supplying plant receives the STO request in SAP Business Network.
- Ship notice in the supplying plant
When the Contract Manufacturer2 (supplying plant) receives the STO, it ships the material and creates a ship notice in SAP Business Network confirming the shipment details. The ship notice is sent from SAP Business Network to ERP to create a replenishment delivery in the buyer's ERP.
- Outbound replenishment delivery and post goods issue in the supplying plant

An outbound replenishment delivery is created in the supplying plant and it posts the goods issue to the stock transport order.

- Standard SAP supports partial replenishment deliveries per item if the STO item is created with the **Partial Deliv. / Item** indicator selected.
- After receiving the ship notice, replenishment delivery referencing the STO item is created and goods issue is posted for the delivery. The parameters (for example, Delivery type) required to create a replenishment delivery are derived from the STO item referenced in the ship notice.
- (Optional) Automatic inbound delivery (SPED) in receiving plant
For scenarios where inbound delivery is required, ERP buyer is expected to configure automatic inbound delivery creation through the output type, **SPED** in the delivery output type configuration. Assigning standard SAP delivered requirement routine (408) to the output type (**SPED**) ensures the inbound delivery is created during PGI for replenishment delivery. The buyer on ERP has to maintain appropriate Confirmation Control key for STO item to support inbound delivery confirmation.
- Receive Material Shipment request in the receiving plant
The CM1 receives the material shipment request and a material receipt is created.
- Goods receipt in the receiving plant
Once the material arrives in the receiving plant, it posts the goods receipt. After the goods receipt posting is complete, SAP Integration Suite, managed gateway for spend management and SAP Business Network does not generate a Product Activity Message to send inventory information to SAP Business Network.
- The Goods Receipt is sent to the supplying plant.

Order Enquiry

When suppliers do not confirm or deliver items within the stipulated time against the purchase orders created in SAP ERP or SAP S/4HANA, you can use reminders called Inquiries to specify the number of times the suppliers would receive a reminder.

Buyers using the SAP ERP or SAP S/4HANA add-on can send an order inquiry and request information about the following:

- Delivery schedule for materials ordered against line items for an entire purchase order
- Delivery date for line items having schedule lines
- Reminder on the outstanding line items
- Overall status of line items or the purchase order
- Additional comments

Suppliers can respond to these inquiries with an order confirmation or a response to the enquiry raised against line items in the purchase order. After the supplier responds to the enquiry, SAP ERP or SAP S/4HANA add-on does not send reminders to suppliers on SAP Business Network.

This feature allows both buyers and suppliers to collaborate and handle processing of purchase orders efficiently.

Note

Buyers can:

- Send inquiries for change purchase orders.
- Create up to three reminders for a purchase order in an SAP ERP or SAP S/4HANA system.

Order enquiry output types and reminders

Buyers can create two output types for an order enquiry:

- MAHN (Dunning)
- AUFB (Dunning Order Confirmation)

Scheduling Agreement Release

Buyers can send a scheduling agreement release as a purchase order (release order) to a supplier when they require material or non-material items for an extended period of time. These scheduling agreement releases contain schedule lines with details about the line item, quantity, and the different delivery dates over an extended period of time. The scheduling agreement releases do not contain any pricing information.

Buyers using SAP ERP and SAP S/4HANA integrated with SAP Business Network via SAP Integration Suite, managed gateway for spend management and SAP Business Network can send scheduling agreement release with multiple line items to SAP Business Network, using a single document. SAP ERP sends the message output at header level per release.

Buyers can create either a Forecast Delivery Schedule or JIT (Just-in-time) Delivery Schedule against a scheduling agreement release that contains schedule lines with delivery dates for different quantities of the line item:

- Forecast Delivery Schedule contains schedule lines for line items required over a longer period of time, spanning multiple weeks or months.
- JIT Delivery Schedule contains line items required over a shorter period of time, spanning multiple days or even times in a day.

Suppliers receive these scheduling agreement releases as a release purchase order containing a single line item with schedule lines. Suppliers can use this release purchase order to create ship notices for the line item based on the delivery dates and specified quantities on SAP Business Network.

Payment terms master data, which indicates the negotiated terms of payment and discount between the buyer and the vendor for a specified period, has been integrated with scheduling agreement releases. This integration helps buyers and suppliers leverage the benefits of including payment terms in release orders. The ARBCIG_DELINS IDoc has been enhanced to support the integration of payment terms information with scheduled agreement releases.

Buyers can send both the LP and LPA purchase document type for scheduling agreements. The scheduling agreement releases can have the order type "release" (for master agreements or blanket purchase orders), or regular purchase orders. Buyers enabled for SAP Business Network for Supply Chain can send the LP and LPA purchasing document type for the subcontracting and consignment item category in scheduling agreements. To send scheduling agreement releases, buyers must enable the rule, **Allow scheduling agreement release collaboration** in their SAP Business Network buyer account.

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports purchasing document version integration with SAP Business Network. For more details, see [Support for version integration for purchasing documents between SAP ERP and SAP Business Network](#).

If you create scheduling agreement, or scheduling agreement release document for materials that have an MRP controller assigned to it, the MRP controller and MRP controller name are sent to SAP Business Network.

You can control sending your accounting information to your supplier. For more details, see [Controlling Sending Your Accounting Information to the Supplier in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

The purchasing documents such as purchase order, scheduling agreement, and scheduling agreement release documents send the confirmation control keys configured (in the SPRO configuration) by the buyer to SAP Business Network. Purchase order, scheduling agreement, and scheduling agreement release documents send the item price tolerance only when the **Adopt price variance** flag is set in **Confirmation Control sequence** in the SPRO configuration.

You can convert dates on outbound documents to plant-specific time zone, by enabling the `USE_PLANT_TIMEZONE` parameter. For more information, see [Converting Dates on Transaction Documents to Plant-Specific Time Zone in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Buyers can use BRFplus output management to configure the output parameters for scheduling agreements in the SAP S/4HANA on-premise systems. For more information, see [BRFplus Output Management \[page 250\]](#).

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2021 (Q4 2020), `OrderRequest` cXML document for purchase orders, scheduling agreements, and scheduling agreement releases has been enhanced and can send information about the following:

- One or more comments at the header level and line item level.
- The `unlimitedDelivery` attribute for material items in purchase orders. This attribute indicates that the line item supports unlimited quantities in shipment deliveries. This value is applicable only in ship notices from SAP Business Network.
- The Kanban indicator for material items for SAP Business Network for Supply Chain.
- The `isItemChanged` attribute to indicate changes to line items. This attribute requires a BAdI implementation by customers to support changes to line items.

For more information about the `OrderRequest` cXML enhancements, see [Purchase Order \[page 97\]](#).

Prerequisites

- To send scheduling agreement releases, enable the rule, **Allow scheduling agreement release collaboration** in your SAP Business Network buyer account.
- If you are sending a scheduling agreement with the JIT (Just-in-time) Delivery Schedule against a scheduling agreement release, ensure that you maintain the value in **JIT Sched. Indicator** field as **1-Automatically**. You need to maintain this value for the material item in the **Material Master-Purchasing** view.
- Ensure that you maintain the confirmation category AB to process the time tolerances in order confirmation.
- When creating purchase orders, ensure that you maintain the following fields in the **Confirmations** tab.
 - Choose a value in the **Conf. Control** field for the order confirmation.
 - Check the **Acknwl.Reqd** field.
- To send scheduling agreement releases when you have configured multiple SAP Business Network accounts, implement the SAP Note 337750.
- To send scheduling agreement releases with multiple lines, do the following:
 - Implement the following SAP Notes:
 - 1872951

- 2893927
- Implement implicit enhancement for multiline scheduling agreement release. For details, see [Implementing Enhancement for Multiline Scheduling Agreement Release in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Uncheck the **Rel.Msg** checkbox in the **Change View "Assignment of Message Determination Schemas to Application"** table. For details, see [Maintaining Parameters to Support Multiple Line Items in the Scheduling Agreement Release Document in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Limitations

- The quantity of the line items in the scheduling agreement must be the sum of the quantities for the line items having the Commitment Level as **Firm**. The line item quantity must not be the sum of all the schedule lines.
- Buyers cannot send both the Forecast Delivery Schedule or JIT (Just-in-time) Delivery Schedule against a scheduling agreement release at the same time to suppliers on SAP Business Network.
- When a buyer creates a scheduling agreement release of type LP or LPA using the Transaction code **ME31L**, the SAP ERP system does not create the IDOC. The SAP ERP system creates an IDOC only after a buyer maintains the delivery schedule lines on SAP ERP system using the Transaction code **ME38**.
- Buyers may have created scheduling agreement release documents that supported only single line items in the scheduling agreement release documents. After they change the configuration to support multiple lines in the scheduling agreement release document, and edit the previously created scheduling agreement release documents, it will result in an error when the message output is generated.
SAP Ariba recommends that you close any previously created scheduling agreement release documents, and then apply the configuration to support multiple lines in a scheduling agreement release.
- When customers migrating from SAP Business Network adapter for SAP NetWeaver to SAP Integration Suite, managed gateway for spend management and SAP Business Network, perform repeat output using the **RSNAST00** program, the purchasing documents are treated as new documents and the corresponding versions stored in the **ARBCIG_ANPO_VER** and **ARBCIG_ANSAR_VER** tables. Therefore, when there is no document change, to avoid having different version numbers on SAP Business Network, the customers migrating from SAP Business Network adapter for SAP NetWeaver to SAP Integration Suite, managed gateway for spend management and SAP Business Network are recommended not to perform repeat output for purchasing documents.
- SAP Business Network does not support scheduling agreement releases that are generated by using a release creation profile in the SAP ECC or SAP S/4HANA system.

Multitier Scheduling Agreements and Scheduling Agreement Releases

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), buyers on SAP Business Network for Supply Chain integrated with SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network can send multitier scheduling agreements and scheduling agreement releases to suppliers. Copy partner function is supported for both multi-line schedule agreement and multi-line schedule agreement releases at both header level and item level release.

In a multitier supply chain, you can collaborate with multiple trading partners to send copies of scheduling agreements and scheduling agreement releases. When you send a scheduling agreement and scheduling agreement release to a specific supplier, a copy is sent to additional multitier (copy) partner suppliers on SAP Business Network.

For an overview of multitier purchase orders, see [Multitier Purchase Orders \[page 110\]](#).

For information about configuring purchase orders and scheduling agreement releases, see [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Prerequisites

SAP ERP or SAP S/4HANA

You must configure the partner roles to send purchase order copies to multiple contract manufacturer suppliers. For more information, see [Configuring the Partner Roles for Multitier Purchase Orders in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

SAP Business Network

To trigger copy of scheduling agreements and scheduling agreement releases from SAP ERP or SAP S/4HANA, ensure that the copy partner suppliers on SAP Business Network have an existing trading relationship with you.

ERP-Initiated Invoice

Invoices created in SAP ERP or SAP S/4HANA are called ERP-initiated invoices or ERP CC invoices. These invoices created in SAP ERP or SAP S/4HANA are then uploaded to SAP Business Network. You can schedule uploads to SAP Business Network. These uploads can also be scheduled either on a daily basis, or on a weekly basis.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2011 (Q4 2020), the invoice ID generated for the document depends on the configuration of **Invoice Doc Option** and **ENABLE_NEW_FI_CXML_INVC_IND** parameters, and is sent through the following extrinsic fields in the cXML: **invoiceID**, **originalInvoiceID**, and **BuyerInvoiceID**. Buyers can map any of these extrinsic fields in the subsequent transactions. To configure the parameters, see [How to maintain parameters for ERP-initiated invoice](#) and [How to maintain parameters for FI-based invoice ID in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

The following table explains the invoice ID available in the extrinsic fields in the cXML:

Invoice Type	invoiceID	originalInvoiceID	BuyerInvoiceID
MIRO	If Invoice Doc Option is not blank then XBLNR else BELNR	XBLNR	BELNR
MIRO Credit Memo	If Invoice Doc Option is not blank then XBLNR_CM else BELNR_CM	XBLNR	BELNR

Invoice Type	invoiceID	originalInvoiceID	BuyerInvoiceID
MRKO	BUKRS + BELNR + GJAHR + BUZEI	XBLNR	BUKRS + BELNR + GJAHR + BUZEI
MRRL	BELNR	XBLNR	BELNR
FI Invoice	If Invoice Doc Option is not blank then XBLNR else BELNR. If the ENABLE_NEW_FI_CXML_IN VC_IND parameter is enabled then BUKRS + BELNR + GJAHR + BUZEI (Company code, BELNR, and Fiscal year).	XBLNR	BELNR

Note
This parameter is ignored if the **Invoice Doc Option** parameter is enabled.

For Credit Memo, if **Invoice Doc Option** is not blank then XBLNR_CM else BELNR_CM.

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), invoice origin mapping has been enhanced from supplier to buyer to support MRIS (Invoicing Plan Settlement) transaction. Invoicing plan settlement allows you to schedule desired invoicing dates for planned procurements independently of the receipt of the relevant goods or performance of the relevant services. It lists the dates on which you wish to create and then pay the invoices in question. You can automate creating invoices triggered by the dates in the invoicing plan. Invoicing plan settlement supports the following options:

- Periodic invoicing plan: The total value of the purchase order item is invoiced on each due date set out in the invoicing plan.
- Partial Invoicing Plan: The total value of the item to be invoiced is broken down and distributed over the individual dates of the invoicing plan.

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), following additional fields pertaining to tax details in invoices created in SAP ERP or SAP S/4HANA are now sent to SAP Business Network when using the SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- **MWSKZ**: Tax code
- **FWBAS**: Base amount in document currency to calculate tax
- **MWSBT**: Tax amount in document currency
- **KTEXTT**: Tax category - maintain the tax code for a single tax category or a tax code with more than one tax category in the **ARBCIG_TAXCATMAP** table. For more information about maintaining tax category, see [Mapping](#)

[SAP Tax Codes to Tax Categories in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

- **MSATZ:** Tax rate (percentage)

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2108 (Q3 2021), subsequent debit memos are supported for ERP-initiated invoices sent to SAP Business Network. The subsequent debit memos are created when invoices are undercharged or some charges are not included during invoicing. By issuing a subsequent debit memo, buyers can make additional payment to the suppliers to balance the cost incurred by the suppliers.

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2311 (Q4 2023), you can view the tax details in an ERP-initiated invoice at the line-item level in SAP Business Network. SAP Integration Suite, managed gateway for spend management and SAP Business Network sends tax details such as tax category, tax rate, taxable amount, tax amount, and description for each line item in the `InvoiceDetailRequest` cXML document from SAP ERP or SAP S/4HANA to SAP Business Network. For more information, see SAP Note [3322404](#).

[Prerequisites \[page 136\]](#)

[Restrictions \[page 137\]](#)

[Workflow for Integrating SAP ERP-Initiated Invoices for Services \[page 138\]](#)

ERP-initiated invoices using the IDoc transmission method

SAP ERP or SAP S/4HANA buyers can send ERP-initiated or CC invoices from SAP ERP and SAP S/4HANA to SAP Business Network using the IDoc transmission method. Buyers can send SAP ERP and SAP S/4HANA MM, services, and FI invoices using the IDoc. The SAP ERP-initiated services invoices contain the tax details for the services and support the cross-company invoices.

The application uses the `GSVERF` IDoc to send MM and services invoices and the `FIDCC2` IDoc to send FI invoices.

The SAP ERP or SAP S/4HANA add-on also supports transmission of invoices that are created through self billing. Invoices are automatically created for purchase orders that are marked for self-billing and also have a goods receipt created against the purchase order.

You can use the IDoc method for the following:

- How to map SAP tax codes to Transmission of invoices created through ERS (Evaluated Receipt Settlement)
- Transmission of manually created PO-based invoices against multiple purchase orders (Summary invoices) with single and multiple line items. The line-items can contain material, advanced pricing details, and unplanned delivery cost items
- Transmission of manually created non-PO invoices containing material, G/L account, contract, internal order, WBS elements, and cost center items
- Transmission of invoices created through the Invoice plan output type containing both periodic and partial items. The invoicing plan is a utility allowing you to specify when and for which amount you wish to create invoices. The creation of the invoice is independent of the receipt of the goods or the service (service entry).
- Transmission of credit memos for FI and MM invoices.

The following are the IDoc methods that customers can use to send ERP-initiated invoices from SAP ERP or SAP S/4HANA:

Type of Invoice	IDoc	Extended IDoc Type
ERS (Evaluated Receipt Settlement)/ MIRO/ MM/ Services	GSVERF	ARBCIG_GSVERF
FI	FIDCC2	ARBCIG_FIDCC2

The ARBCIG_GSVERF and ARBCIG_FIDCC2 IDoc types are enhanced to include new segments to get additional information on the Name, Street, and City for the vendor. Buyers can customize and add segments to include additional information for vendors.

Prerequisites

This section describes the prerequisites for integrating the SAP Ariba-initiated invoices for services:

- On the **Change Vendor: Purchasing data** page, under **Control Data**, check **AutoEvalGRSetmt.Del.** to use SAP ERP-initiated invoices. For more information, see [Enabling SAP ERP-Initiated Invoices on the Buyer's SAP ERP in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- When you run the **ME11** transaction code to create purchase info record (PIR), in the **Create Info Record: Purch. Organization Data** page, uncheck **No ERS**.
- Activate ERS invoices for your chosen supplier. You can use SAP ERP-initiated invoices for services only with the suppliers that you have chosen.

Supporting MRIS (Invoicing Plan Settlement)

- Set **INVOICE_DOC_OPTION = XBLNR**. For more information about maintain parameters for ERP-initiated invoice, see [Maintaining Parameters for ERP-Initiated Invoice in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Check **AutoEvalGRSetmt Del** in the **Vendor Purchasing Data**.
- Include tax code and terms of payment in your purchase orders.
- Set **IR** and **ERS** indicators in your purchase orders.
- Set both **GR** and **GR non-valuated** indicators as needed.
- Complete account assignment.

ⓘ Note

After you have created the item, you cannot change the account assignment category. You can change only the data dependent on the account assignment category, such as the cost center for the account assignment category **K**.

- Use the SAP Ariba recommended framework orders with the document type **FO** or the standard document type **NB** for your purchase orders.

Restrictions

Restrictions using the IDocs

SAP ERP or SAP S/4HANA add-on does not support the following while processing ERP-initiated invoices and FI invoices using the IDoc transmission method:

- Transmission of debit memos for FI and ERP-initiated invoices
- Sends the `<ShippingAmount>` element only when the invoice contains unplanned delivery cost.
- The **SubTotal Amount** field does not include the tax amount. You can use customer exits to include the tax amount in the **Sub Total Amount** field.
- Does not send payment term values if the payment terms is **Immediate** with no tier discounts.
- Does not send the `Email` name element in the Contact element.
- Does not send accounting information for FI and ERP-initiated invoices.

Restrictions for non PO-based ERP-initiated invoice with cross company codes

For non PO-based ERP-initiated invoices, the tax amount is available at the header level only.

Restrictions for PO-based ERP-initiated invoice with cross company codes

- When creating an ERP-initiated invoice in SAP ERP or SAP S/4HANA, you can provide the tax amount for each line item. However, when you view such an invoice in SAP Business Network, the tax is displayed at the header level as the sum of all the line item tax amounts.
- If you create an ERP-initiated invoice with multiple POs, then such an invoice is extracted and displayed as a non PO-based invoice and as a result, when you view such an invoice in SAP Business Network:
 - The PO ID is not displayed as part of the invoice.
 - The invoice contains only one line item.
 - Quantity is displayed as 1.
 - Unit price and total invoice amount of the single line item are displayed as the invoice subtotal excluding freight and tax (if available at header level).

Restrictions for subsequent debit memos in ERP-initiated invoices

Subsequent debit memos are:

- Supported only for purchase order based invoices.
- Not supported using transaction `MRKO` as it does not reference purchase order.

Restrictions for PO-based ERP-initiated invoices and non PO-based ERP-initiated invoice

- Withholding tax is not supported for PO-based ERP-initiated invoices and non PO-based ERP-initiated invoices.
- The managed gateway doesn't support price-based quantity for Evaluated Receipt Settlement (ERS) invoices created in SAP ERP or SAP S/4HANA. This is applicable for buyers that are integrated with both SAP Business Network and SAP Ariba Buying and Invoicing.

Workflow for Integrating SAP ERP-Initiated Invoices for Services

The following workflow describes how to settle SAP ERP-initiated invoices for services that are integrated with SAP Business Network using SAP Integration Suite, managed gateway for spend management and SAP Business Network:

1. In SAP ERP, the buyer creates a service purchase order (with item category D), enables the SAP ERP-initiated invoices for the service line items, and sends the purchase order to SAP Business Network.
2. In SAP Business Network, the vendor receives the service purchase order from the buyer in their account and confirms the services in the purchase order that they can deliver.
3. In SAP Business Network, the vendor creates a service entry sheet with the required details including the service start and end dates and submits it.
4. In SAP ERP, the buyer approves the service entry sheet received from the vendor. An acceptance document is generated.
5. In SAP ERP, the buyer runs the `MRRL` transaction to settle the ERS invoice with logistics invoice verification.

ⓘ Note

If the vendor is new and has not registered yet on SAP Business Network, an email is triggered when the SAP ERP-initiated invoice for services is posted from SAP ERP.

ERP-Initiated Service Entry Sheets

This feature enables the integration of SAP ERP-initiated service entry sheets with SAP Business Network and SAP Ariba Invoice Management using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

As a buyer, you can create and send service entry sheets from SAP ERP or SAP S/4HANA on behalf of a supplier. The approved service entry sheets are then sent to SAP Business Network and can additionally be sent to SAP Ariba Invoice Management. The feature accelerates the process of service procurement as buyers do not have to wait for the supplier to send the service entry sheet.

An SAP ERP-initiated service entry sheet supports comments. You can use the transaction code `SLG1` to monitor the status of the document.

Transaction	Object	Subobject
ERP-initiated service entry sheet	ARBCIG_NETWORK	ERP_CREATE_SES

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), you can enable ERP-initiated service entry sheets integration for a specific set of suppliers and company code combination.

You can maintain these specific vendors in the **Activate Additional Outbound Messages for Specific Vendors** table (the `ARBCIG_OB_VENDOR` database table) in the **Maintain Vendor for the Outbound Transaction** node in SPRO.

In the **Activate Additional Outbound Messages for Specific Vendors** table, you can maintain only a subset of the vendors that you have maintained in the **SAP Business Network Vendor Table** (the `BN_VENDOR` table).

① Note

If you have not maintained any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table, the ERP-initiated service entry sheet transaction is integrated with SAP Business Network for all the suppliers in the **SAP Business Network Vendor Table** table.

For more information, refer to [Maintaining Specific Vendors and Company Codes as Recipients of Transactions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

Prerequisites:

- The buyer must be on the latest version of SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on.
- Apply the SAP Note: [2754690](#).
- The supplier must be enabled on SAP Business Network.
- The supplier information must be maintained in the ARBCIG_AN_VENDOR table.
- The buyer must perform the following actions on SAP ERP:
 - Enable SAP Integration Suite, managed gateway for spend management and SAP Business Network on SAP Ariba Procurement solutions. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba Procurement solutions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide*.
 - Configure the parameters for ERP-initiated service entry sheet. For more information, see [Maintaining Parameters for ERP-Initiated Service Entry Sheets](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Configure the outbound proxy to send the ERP-initiated service entry sheet to SAP Business Network. For more information, see [Configuring the Connections to Send Messages](#) for SAP Business Network in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Implement the implicit enhancement to update the XBLNR field on SAP ERP with the service entry sheet number. For more information, see [Implementing Enhancements to Update the XBLNR Field With the ERP-Initiated Service Entry Sheet Number](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Create the event for the **ERP-initiated service entry sheet** create and change document. For more information, see [Configuring the Create and Change Events for the ERP-Initiated Service Entry Sheets](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Activate the event type linkages to send service entry sheets. For more information, see [Activating the Event Type Linkages to Send ERP-Initiated Service Entry Sheets](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Implement the implicit enhancement for revoking and rejecting previously accepted service sheets. For more information, see [Implementing Implicit Enhancements for Revoking and Rejecting Previously Accepted Service Entry Sheets](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

Limitations

- When an ERP-initiated service entry sheet is modified and resubmitted, the updated information is not sent to SAP Business Network.

- ERP-initiated service entry sheets are supported only for purchase orders with standard line types.
- ERP-initiated service entry sheets for unplanned services added to a hierarchy are not supported.

Receipt

The cXML ReceiptRequest document defines the receipt information of a purchase order or master agreement with item details. A receipt line is a ReceiptItem element with details of a receipt line. Buyers generate receipts and send them to suppliers.

Note

- SAP ERP and SAP S/4HANA add-on retrieve receipt records based on the date on which the query to fetch the records was last run as well as on the material document number.

The header and line level comments are mapped to the following fields of the goods receipt interface in SAP ERP and SAP S/4HANA:

- Header level comments: **HeaderText**
- Line level comments: **Text**

Buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network and customers enabled for SAP Business Network for Supply Chain can send the **GR-Bsd IV** flag values they set for invoices in the purchase orders sent to suppliers on SAP Business Network. Buyers can ensure that their suppliers can only invoice based on the quantity the buyer received on SAP Business Network and not exceed the quantities the buyer received.

[Multitier Receipts \[page 140\]](#)

[Receipt with Corrections and Returns \[page 141\]](#)

[Proof of Delivery and Component Receipt \[page 142\]](#)

[Prerequisites and Limitations \[page 143\]](#)

Multitier Receipts

Buyers enabled for SAP Business Network for Supply Chain can send a copy of the receipt against subcontracting purchase orders to the original component manufacturing supplier. When the subcontracting supplier receives the goods from the component manufacturing supplier, the subcontracting supplier acknowledges and sends a component acknowledgment to the buyer. On receiving the component acknowledgment, the buyer sends a copy of the goods receipt created on the SAP ERP system to the component manufacturing supplier.

For example, a buyer needs car. The buyer sends a subcontracting purchase order to Supplier A (Component manufacturer). The buyer also sends a regular purchase order for wheels to Supplier B (Component supplier). Supplier A builds cars, but procures the wheels for the car from Supplier B. Supplier B delivers the wheels to Supplier A to build the car. Supplier A receives the wheels and sends an acknowledgment to the buyer. The buyer receives the acknowledgment and sends a receipt to Supplier B informing them about the wheels Supplier A received.

Receipt with Corrections and Returns

You can send receipts with returns and corrections for the line items shipped against purchase orders. The cXML document `ReceiptRequest` sent to suppliers on SAP Business Network contains detailed information on the number of goods returned, received, or any corrections made against them. The attribute `type` in the `ReceiptItem` stores the `Received` or `Returned` values. A negative value in the line item quantity denotes that there was a correction to the items received or returned. The following movement types support returns and corrections in receipts:

- 101, 103, and 105 to send received quantities
- 102 to send corrections on the received quantity
- 122, 124, and 161 to send returned quantities
- 123 to send corrections on the returned quantities

Buyers and suppliers on SAP Business Network can view the details of the returns and corrections for line items in the purchase order on the purchase order details and order history pages. Based on the information in the receipt, the purchase order header status displays if the goods were fully received or partially received. The line items in the purchase order on SAP Business Network also display the number of items received or returned. For example, the table shows how items are calculated as received or returned:

Line item quantity contains	Receipt type	Indicates the items have been....
Positive value	Received	Received
Negative value	Received	Corrected against the received quantity
Positive value	Returned	Returned
Negative value	Returned	Corrected against the returned quantity

The following is an example of how receipts with returns and corrections flow from a buyer SAP ERP or SAP S/4HANA system to SAP Business Network:

- An SAP ERP or SAP S/4HANA buyer creates a purchase order having the following line items and sends it to the supplier on SAP Business Network:
 - Line item 1 having a quantity of 20
 - Line item 2 having a quantity of 30
- The supplier confirms the purchase order and ships the goods to the buyer for the following:
 - Line item 1 having a quantity of 15
 - Line item 2 having a quantity of 30
- The buyer receives the goods and creates a receipt for the following items received:
 - Received quantity 15 for line item 1
 - Correction of quantity 5 that were not received for line item 1
 - Received quantity 30 for line item 2
 - Returned quantity 10 for line item 2
- The `ReceiptItem` in the cXML `ReceiptRequest` document sent to the supplier on SAP Business Network contains the following information:
 - `<ReceiptItem receiptLineNumber="1" quantity="15" type="received">`
 - `<ReceiptItem receiptLineNumber="1" quantity="-5" type="received">`
 - `<ReceiptItem receiptLineNumber="2" quantity="20" type="received">`

- <ReceiptItem receiptLineNumber="2" quantity="-10" type="returned">

Proof of Delivery and Component Receipt

When a contract manufacturer supplier receives the components from the buyer, they send a receipt to the buyer from SAP Business Network.

When the contract manufacturer supplier sends a receipt for the components, the SAP ERP system processes the receipts as follows:

- When the buyer receives the receipt acknowledging the components, the SAP ERP buyer creates a Proof of Delivery against the receipt (541 - one step movement type). The buyer creates the Post Good Issue(PGI) on the SAP ERP system for the components that have been shipped and received by the contract manufacturer supplier. On the SAP ERP system, the stocks for the shipped components moves to "Stock in transit" status. When the buyer receives the receipt from the contract manufacturer suppliers acknowledging the shipment of the components, the SAP ERP system moves the status of the components received by the contract manufacturer supplier to "Stock provided to vendor." This is the two-step movement with movement type 30C.
- (Applicable if you are using a middleware) When the contract manufacturer supplier receives the components from the buyer, the contract manufacturer supplier sends the component receipt(ReceiptRequest) back to the buyer from SAP Business Network. Each component receipt that SAP Business Network sends the buyer can contain multiple messages. SAP Integration Suite, managed gateway for spend management and SAP Business Network processes these multiple messages in the component receipt as an individual message for each inbound delivery on the SAP Process Integration system. This helps SAP Integration Suite, managed gateway for spend management and SAP Business Network handle errors in messages successfully.
If you are an existing customer using Ariba Network adapter for SAP NetWeaver you need to create the CCT_ComponentAck_cXML_SOAP_XI_Receiver communication channel to process multiple messages. Ariba Network adapter for SAP NetWeaver does not support mapping of multiple messages for the SAP Process Integration adapter. Ariba Network adapter for SAP NetWeaver uses the SOAP adapter with SAP Process Integration as the message protocol to process multiple messages in the component receipt and send them to the SAP ERP.
- (Multitier PO)
If the buyer ships the goods to contract manufacturer suppliers in two different locations, the buyer sends the ship notice for shipping the components to both the locations. The component manufacturer supplier ships the components received at the first location to the other contract supplier in the second location and sends a component ship notice to the other contract supplier on SAP Business Network. After the components have been shipped from one location to another and the same has been received, the contract manufacturer supplier sends the component receipt referencing the ship notice from SAP Business Network. The SAP ERP buyer receives the component receipt from SAP Business Network and creates a goods receipt on the SAP ERP system, referencing the supplier who received the goods from one supplier location to another. This is the 101 (O) "Provided to Subcontract Vendor" movement type.

Buyers can send a copy of the receipt against subcontracting purchase orders to the original component manufacturing supplier. When the subcontracting supplier receives the goods from the component manufacturing supplier, the subcontracting supplier acknowledges and sends a component acknowledgment to the buyer. On receiving the component acknowledgment, the buyer sends a copy of the goods receipt created on the SAP ERP system to the component manufacturing supplier.

The buyer acknowledges the goods that have been fully received, partially received, received excess quantity, or returned.

Prerequisites and Limitations

Prerequisites

- Configure the processing routines to create goods receipts on the SAP ERP system.
- Create the condition records for the Event Type WE (GR Note Vers 3).
- Set up the user profile parameter to activate the collective slip for goods receipts.
- Configure the NACE settings for goods receipts on the SAP ERP system.
- Maintain the value mapping to support multiple suppliers for purchase orders and receipts.
- Buyers enabled for SAP Business Network for Supply Chain need the following:
 - Implement **SAP Note 1993787** to avoid the runtime error, MESSAGE_TYPE_X of category ABAP Programming Error. This error occurs when processing component receipts for multitier purchase orders.

Proof of delivery

- Configure the Set POD-Relevance Depending on Delivery Item Category in the SPRO configuration.

Limitations for receipts

When you send or receive receipts with corrections and returns, the receipt integration has the following limitations:

- Buyers cannot create receipts for blanket purchase orders.

Limitations for multitier receipts

- Ariba Network adapter for SAP NetWeaver allows buyers to make changes to the purchase order sent to multiple contract manufacturing suppliers. Buyers must ensure that they do not change the vendor and partner role while changing the purchase order as SAP Business Network does not support processing changes to these purchase orders sent to multiple contract manufacturing suppliers.
- Ensure that the **Manufacturer Part Number (MPN)** does not exceed 18 characters. If the **MPN** exceeds 18 characters, the multitier receipt fails with an error.

Ship notice (Component ship notice)

Buyers enabled for SAP Business Network for Supply Chain send a purchase order for components to a contract manufacturer supplier and then ship the components to the contract manufacturer supplier on SAP Business Network. Then the buyer sends the component ship notice (ShipNoticeRequest) with the details about the subcontracting components shipped.

To create the ship notice, buyers must do the following:

- Create the customer transaction for the vendor and extend it to the sales area.
- Configure the required shipping configuration to create the outbound delivery for components. Ensure that you extend the components to the sales view.

When a buyer sends a ship notice for shipping the components to the contract manufacturer supplier, the buyer can do one of the following:

- Create a Post Good Issue (PGI) against the ship notice that the contract manufacturer supplier sends from SAP Business Network.
- Create a PGI for shipping goods to contract manufacturer suppliers in two different locations. This is the two-step movement type -30A.

As part of the subcontracting process, when a buyer ships the goods, a buyer can send the components to the component manufacturer supplier in two different locations. This is also called the Drop ship. SAP ERP and SAP S/4HANA support the two-step shipping of components to suppliers. The two-step shipping involves the following:

- Shipping the components to the stock in transit
- Shipping the stock in transit into the stock provided to the supplier

The component shipment consists of two processes:

One-step movement (541 movement type)

In the one-step movement process, when the buyer ships the goods, the buyer sends the component ship notice and the component inventory overview ([ProductActivityMessage](#)) together to the contract manufacturer supplier on SAP Business Network. When the contract manufacturer suppliers receive the goods, they must ensure that they send the Proof of Delivery to the buyer.

Buyers must ensure that [*Proof of Delivery*](#) flag is marked in the outbound delivery document. Buyers can set the [*Proof of Delivery*](#) flag manually in the outbound delivery document or set the configuration in SPRO in  **Logistics Execution >> Shipping > Deliveries > Proof of Delivery > Set POD-Relevance Depending on Delivery Item Category** on the SAP ERP system.

Two-step movement (30A and 30C movement type)

When the buyer sends the component ship notice (movement type 30A) to contract manufacturer suppliers on SAP Business Network, the contract manufacturer supplier sends the proof of delivery on receipt of the goods. After receiving the proof of delivery, the buyer does the movement type 30C and sends the component inventory overview ([ProductActivityMessage](#)) with the details of the components on the SAP ERP system to the contract manufacturer supplier.

If you are using SAP S/4HANA on-premise edition 1610, ensure that you implement the code for the METHOD MB_DOCUMENT_UPDATE in the BAdI [BAdI_MB_DOCUMENT_BADI](#) and implement the event type linkage for goods receipts.

Buyers can send the company code in the component ship notice from the SAP ERP system.

The company code in ship notices helps suppliers to sort and process shipments with items returned. Suppliers can also filter component ship notices based on the organization, using the company code.

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), you can enable ship notice integration for a specific set of suppliers and company code combination.

You can maintain these specific vendors in the **Activate Additional Outbound Messages for Specific Vendors** table (the ARBCIG_OB_VENDOR database table) in the **Maintain Vendor for the Outbound Transaction** node in SPRO.

In the **Activate Additional Outbound Messages for Specific Vendors** table, you can maintain only a subset of the vendors that you have maintained in the **SAP Business Network Vendor Table** (the BN_VENDOR table).

ⓘ Note

If you have not maintained any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table, the ship notice transaction is integrated with SAP Business Network for all the suppliers in the **SAP Business Network Vendor Table** table.

For more information, refer to [Maintaining Specific Vendors and Company Codes as Recipients of Transactions](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

[Prerequisites \[page 145\]](#)

Prerequisites

- If you are using SAP S/4HANA on-premise edition 1610, ensure that you implement the code for the METHOD MB_DOCUMENT_UPDATE in the BAdI **MB_DOCUMENT_BADI** and implement the event type linkage for goods receipts.
- You need to configure the confirmation control key in purchase orders and order confirmations.
- If you are using the one-step movement to ship the goods to the contract manufacturer supplier, you must set the *Proof of Delivery* flag manually in the outbound delivery document or configure the *Proof of Delivery* flag on SPRO.

Invoice status update

You can check the status of invoices created on SAP ERP, SAP S/4HANA, or SAP Business Network. The Invoice Status Update (ISU) transaction processes invoices that are posted, processed, paid, reconciled, rejected, canceled, parked, or parked invoices that are deleted on the SAP ERP or SAP S/4HANA. The Business Transaction Events (BTE) is created to process the following:

- Invoices created, changed, reversed, canceled, or parked.
- Parked invoices that were deleted.
- Invoices when payments are received on SAP ERP or SAP S/4HANA.

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), you can enable ISU integration for a specific set of suppliers and company code combination.

You can maintain these specific vendors in the **Activate Additional Outbound Messages for Specific Vendors** table (the ARBCIG_OB_VENDOR database table) in the **Maintain Vendor for the Outbound Transaction** node in SPRO.

In the **Activate Additional Outbound Messages for Specific Vendors** table, you can maintain only a subset of the vendors that you have maintained in the **SAP Business Network Vendor Table** (the BN_VENDOR table).

ⓘ Note

If you have not maintained any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table, the ISU transaction is integrated with SAP Business Network for all the suppliers in the **SAP Business Network Vendor Table** table.

For more information, refer to [Maintaining Specific Vendors and Company Codes as Recipients of Transactions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

ⓘ Note

The SAP Integration Suite, managed gateway for spend management and SAP Business Network, supports integration with the invoice status portal on SAP Business Network without any additional configuration. For more information on invoicing and payment remittance in SAP Business Network Commerce Automation, refer to [Invoice Status Portal Configuration](#).

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2505 (Q2 2025, SP 23), buyers can send an invoice status portal (ISP) registration invite to their suppliers.

A buyer transacting with different suppliers can receive invoices through different communication channels. During this invoice lifecycle process, suppliers can have multiple queries regarding the status of invoices and payments.

This feature allows buyers to send a registration invite to ISP when a buyer sends an ERPCC Invoice to a supplier not registered on ISP. Suppliers can use the invitation to create a new account on ISP and view the invoice details. To configure this feature, refer to [Sending Invoice Status Portal \(ISP\) Registration Invite](#).

Limitations

Parked invoices originating from SAP ERP or SAP S/4HANA are not supported by SAP ERP and SAP S/4HANA add-on.

Scheduled payments

Buying organizations use scheduled payments, that is, `PaymentProposalRequest` documents, to tell SAP Business Network and their suppliers about planned payments. You can use SAP Integration Suite, managed gateway for spend management and SAP Business Network to integrate scheduled payments between SAP ERP or SAP S/4HANA and SAP Business Network.

After a buying organization approves an invoice, their invoicing application sends a scheduled payment to SAP Business Network, which displays it to suppliers. Scheduled payments contain the extrinsic element called `immediatePay` that stores information about scheduled payments. These documents list scheduled payment dates, discount amounts, and net amounts.

The payment proposals contain the following details:

- Tax category
- Tax location (tax jurisdiction)
- Discount Basis amount
- Total tax amount for the tax category and tax location
- Total tax applicable
- Discount amount
- Invoice ID
- Invoice date

- Payment date

The configuration that SAP ERP or SAP S/4HANA maintains for the tax location (tax jurisdiction) is used while processing the tax information based on the tax category. However, you can override this configuration using the BAdl ARBCIG_PP_UPDATE provided for the payment proposal. The method change_pp_tax in the BAdl ARBCIG_PP_UPDATE allows you to override the tax information.

You can also use scheduled payments for buyer-initiated discounts. For more information, see [Discount Management \[page 148\]](#)

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), you can enable payment proposals integration for a specific set of suppliers and company code combination.

You can maintain these specific vendors in the **Activate Additional Outbound Messages for Specific Vendors** table (the ARBCIG_OB_VENDOR database table) in the **Maintain Vendor for the Outbound Transaction** node in SPRO.

In the **Activate Additional Outbound Messages for Specific Vendors** table, you can maintain only a subset of the vendors that you have maintained in the **SAP Business Network Vendor Table** (the BN_VENDOR table).

Note

If you have not maintained any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table, the payment proposals transaction is integrated with SAP Business Network for all the suppliers in the **SAP Business Network Vendor Table** table.

For more information, refer to [Maintaining Specific Vendors and Company Codes as Recipients of Transactions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Tax adjustments for buyer-initiated discounts

SAP Integration Suite, managed gateway for spend management and SAP Business Network allows buyers to pass discount basis on payment proposals from SAP ERP or SAP S/4HANA to SAP Business Network. The discount basis on payment proposals allows SAP Ariba Discount Management to exclude taxes and other potential ERP-defined elements from the discount calculation. SAP Business Network passes discount amount, tax rebates, and revised settlement amounts back to the buyer and supplier ERP systems when a supplier accepts a discount offer, and displays adjustments resulting from tax rebates clearly in the remittance advice. Buyers can configure the combinations of tax categories and tax location code (which can be mapped to ERP-defined country, region, or province) for which SAP Business Network should calculate a tax rebate.

Note

The discount basis must be equal to the taxable amount. You should not exclude other tax elements from the discount basis for countries in which tax adjustment applies.

Supporting discount base amounts without taxes and discount percent calculated in SAP Business Network

This feature is supported from SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2111 (Q4 2021).

In payment proposal requests, you can use the **DISCOUNT_BASE_WITH_NO_TAX** parameter to exclude the tax amount from the discount base amount for discount calculation. For details, refer to parameter **DISCOUNT_BASE_WITH_NO_TAX** in [Maintaining Parameters for Payment Proposal](#).

The **DISCOUNT_BASE_WITH_NO_TAX** parameter is an alternative to the **Discount base is net value** parameter.

SAP Business Network adopts the calculation precision of three decimal places and uses the **DiscountPercent** element in the Payment Proposal request cXML file, which helps you get correct discount percent. This ensures consistent calculation methods for the discount percent between SAP Business Network and SAP ERP or SAP S/4HANA.

Discount Management

Using SAP Integration Suite, managed gateway for spend management and SAP Business Network, you can integrate scheduled payments used for buyer-initiated discounts (formerly called Dynamic discounting), supplier-initiated discounts, and standing early payment term offers, which allow buying organizations and suppliers to negotiate an early settlement in return for discounts. If the buying organization activates discount management, SAP Business Network allows suppliers to request an accelerated payment using a discount rate configured by the buying organization. If the supplier activates discount management, SAP Business Network allows the buying organization to review and either accept or reject the early settlement terms. If necessary, the supplier can revise the offer.

If suppliers choose to schedule payments for early settlement, the suppliers can respond to the scheduled payments indicating the details of the accelerated payment using the [PayMeNow](#) transaction. For more information, see [PayMeNow \[page 214\]](#)

Payment remittance (outbound)

When a buyer makes a payment against an invoice, the buyer sends a **PaymentRemittanceRequest** to notify the supplier about the payment.

Buyers integrated with SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send information about the canceled payments to SAP Business Network from the SAP ERP system.

Buyers can cancel automatic payments against invoices on their SAP ERP system and send the canceled payment information to SAP Business Network. SAP ERP integrated with SAP Integration Suite, managed gateway for spend management and SAP Business Network can send the information about only one canceled payment to SAP Business Network.

When a buyer cancels a payment and runs the transaction **ARBCIG_REM_CANCEL**, SAP ERP sends the **PaymentRemittanceStatusUpdateRequest** document to the supplier on SAP Business Network informing

them of the status of the canceled payment. The `PaymentRemittanceStatusUpdateRequest` contains the status "canceled." (`PaymentRemittanceStatus type="canceled"`). Before sending the information about canceled payments to SAP Business Network, the SAP ERP system checks to see if the payment has been reversed.

To send information about a canceled payment, choose **Remittance Cancellation** in the  **Integration with Other SAP Components**  **Managed Gateway for Spend&Network for Buyer**  **SAP Business Network Integration**  **General Settings**  **Set up the Interface**  **Configure the Connections to Send Messages**  page.

Masking of bank account information in payment documents

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network January (2001) release, SAP Integration Suite, managed gateway for spend management and SAP Business Network supports masking of the bank account information sent in the payment batch cXML and remittance payment documents. This enhances the security of the payment batch cXML and remittance payment documents as they contain sensitive bank account information.

SAP Integration Suite, managed gateway for spend management and SAP Business Network masks the bank account information in the following documents:

- `PaymentRemittanceRequest`
- `PaymentBatchRequest`

The SAP Integration Suite, managed gateway for spend management and SAP Business Network administrator must configure the payment transaction documents to mask the fields that contain sensitive information.

When buyers download the source or target XML file on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal, SAP Integration Suite, managed gateway for spend management and SAP Business Network masks the following fields in the `PaymentBatchRequest` and `PaymentRemittanceRequest` documents:

- `originatingBank`
- `receivingBank`
- `Payer-bankAccountID`
- `Payer-ibanID`
- `Payer-accountID`
- `Payee-bankAccountID`
- `Payee-ibanID`

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), you can enable payment remittance request and payment remittance cancel status update integration for a specific set of suppliers and company code combination.

You can maintain these specific vendors in the **Activate Additional Outbound Messages for Specific Vendors** table (the `ARBCIG_OB_VENDOR` database table) in the **Maintain Vendor for the Outbound Transaction** node in SPRO.

In the **Activate Additional Outbound Messages for Specific Vendors** table, you can maintain only a subset of the vendors that you have maintained in the **SAP Business Network Vendor Table** (the `BN_VENDOR` table).

① Note

If you have not maintained any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table, the payment remittance request and payment remittance cancel status update transactions are integrated with SAP Business Network for all the suppliers in the **SAP Business Network Vendor Table** table.

For more information, refer to [Maintaining Specific Vendors and Company Codes as Recipients of Transactions](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

[Prerequisites and limitations \[page 150\]](#)

Prerequisites and limitations

The following covers the prerequisites and limitations to support integration of sending information about canceled payments:

Prerequisites

SAP ERP

- Ensure that you configure the option **Remittance Cancellation** to send information about canceled payments in the Configure the Connections to Send Messages page. To do this, go to the  **Integration with Other SAP Components**  **Managed Gateway for Spend&Network for Buyer**  **SAP Business Network Integration**  **General Settings**  **Set up the Interface**  section.
- Ensure that you maintain the company code and associated payment method for your payment transactions.
- Ensure that you make the necessary changes to send the payment remittance request. For more information, see [Payment Remittance Request Configuration in SAP ERP and SAP S/4HANA](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Ensure that you reset and reverse the clearing document using the transaction code, FBRA before you send the information on the canceled automatic payment to SAP Business Network.

SAP Business Network

- Configure your **SAP Business Network** account to receive payment remittance information from SAP Business Network. For more information on the required rules, see [SAP Business Network Buyer Administration Guide](#) in the Administrators section of the Learning Center.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- If you want to maintain the cross references for payment remittances cancellation, SAP Ariba requires the document type, `PaymentRemittanceCancelStatusUpdate` in the Cross References page on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal.

Limitation

- Does not support cancellation of partial payments or manual payments.
- Does not support sending the information about canceled remittances. This applies to the remittances that are created before the SAP Integration Suite, managed gateway for spend management and SAP Business Network release September 2018.

- Does not support sending any other adjustment amounts other than the withholding taxes from the buyer's SAP ERP to SAP Business Network.

Payment Remittance Batch

SAP ERP buyers integrated with SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send multiple remittances for AribaPay payments, Barclaycard Precisionpay, and payments for other payment methods from the SAP ERP system to SAP Business Network in a batch through the cXML format.

SAP Integration Suite, managed gateway for spend management and SAP Business Network processes the remittances for AribaPay payments using the standard SAP F110 automatic payment transactions. The remittances are batched together as a single cXML file and sent to SAP Business Network. On receipt of the remittances, SAP Business Network sends the payment details to the AribaPay provider for settlement of payments between the buyer and supplier banks.

To make the payment to suppliers using Barclaycard Precisionpay, buyers need to extract information from the following additional fields from SAP ERP or SAP S/4HANA, and map the information using cXML in SAP Integration Suite, managed gateway for spend management and SAP Business Network for passing on the information to SAP Business Network:

- Supplier contact name
- Nature of business
- Incorporation Type
- Company Registration Number
- Bank Sort Code – Bank Key

After the information from the additional fields reaches SAP Business Network, the information will be passed on to SAP Multi-Bank Connectivity and, then, to Barclaycard Precisionpay for payment processing.

For the integration to support Barclaycard Precisionpay as payment partner, the implementation of the `IF_EX_BNK_CPOR~COMPLETE_CASE_EXTENSION` method of the standard BAdI `BNK_CPOR` available for the F110 transaction for automatic payment is enhanced.

Note

SAP Ariba recommends that you send remittances that use a single payment method in a payment batch. You cannot send remittances that use more than one payment method. For example, you cannot have a payment batch containing both ACH and the AribaPay payment methods.

Masking of bank account information in payment documents

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network January (2001) release, SAP Integration Suite, managed gateway for spend management and SAP Business Network supports masking of the bank account information sent in the payment batch cXML and remittance payment documents. This enhances the security of the payment batch cXML and remittance payment documents as they contain sensitive bank account information.

SAP Integration Suite, managed gateway for spend management and SAP Business Network masks the bank account information in the following documents:

- `PaymentRemittanceRequest`
- `PaymentBatchRequest`

The SAP Integration Suite, managed gateway for spend management and SAP Business Network administrator must configure the payment transaction documents to mask the fields that contain sensitive information.

When buyers download the source or target XML file on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal, SAP Integration Suite, managed gateway for spend management and SAP Business Network masks the following fields in the `PaymentBatchRequest` and `PaymentRemittanceRequest` documents:

- `originatingBank`
- `receivingBank`
- `Payer-bankAccountID`
- `Payer-ibanID`
- `Payer-accountID`
- `Payee-bankAccountID`
- `Payee-ibanID`

[Prerequisites and Restrictions \[page 152\]](#)

[Workflow to Support Sending Payments Through the cXML Format Using SAP Standard Payment Interface \[page 155\]](#)

[Support Payments to International Suppliers \[page 155\]](#)

Prerequisites and Restrictions

To send multiple payments in a cXML batch, buyers need the following:

Prerequisites

SAP ERP

- You need to have the SAP ERP enterprise services package (ECC-SE 605 and higher) on your SAP ERP system.
- (Required if you are using SAP Process Integration) Ensure that you download and install the corresponding TPZ file for the SAP ERP enterprise services package. The service interface `CollectivePaymentOrderBulkRequest_Out` is referenced from the SAP namespace: `http://sap.com/xi/APPL/SE/Global`. If you have customized the standard SAP ERP enterprise services package, ensure that you use the outbound service interface `CollectivePaymentOrderBulkRequest_Out` from the Software Component version and namespace that belongs to SAP Enterprise Service package content (ECC-SE 605 and higher) in the SAP Integration Suite, managed gateway for spend management and SAP Business Network namespace `http://sap.com/xi/APPL/SE/Global`. Use the SPROXY transaction to ensure that all the

components are available on the SAP ERP system. For more information, see https://help.sap.com/doc/saphelp_me151/15.1.3VERSIONFORSAPME/en-US/62/59a810f1c011dc2b8d000f20fcb6a9/frameset.htm.

- (For AribaPay) Configure the payment method by country/region for SAP Ariba Payables payments. For more information, see [Creating Payment Methods by Country/Region for AribaPay in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Ensure that you have maintained the payment medium format as **CPOR_BULK**.
- Implement the standard SAP BAdl `BNK_CPOR`.
- If you use SAP ERP EHP4 and higher (version EHP5 and higher for Barclaycard Precisionpay), ensure that you implement the methods for the standard BAdl to send payments (remittance) in a batch file to SAP Business Network. The standard SAP Enterprise service does not contain certain fields that SAP Ariba requires to process the payments.

To include information on the fields that are not available in the standard SAP Enterprise service, SAP Ariba provides an enhancement to the following methods for the standard BAdl available for the FI10 automatic payment transaction. You must copy the code available in the SAP Note 2654684 for the following methods to make changes to the Collective Payment Order Bulk Request message type:

- `IF_EX_BNK_CPOR~COMPLETE_CASE_EXTENSION`
- `IF_EX_BNK_CPOR~COMPLETE_EXPLANATION`

For more information, see [Customizing the Payment Batch in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

- To send email address in the field `PAYMENT`, implement SAP Note [1690026](#) -CPOR: BAdl `COMPLETE_CASE_EXTENSION` does not receive all data.
- Configure and set up the settings for the XI adapter to send the payment batch files to the SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Setting Up the Connection to Connect an XI Adapter with SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#) and [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Ensure that you make the necessary configuration changes to send the payment remittance request. For more information, see [Payment Remittance Request Configuration in SAP ERP and SAP S/4HANA in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#)
- If you choose to use a middleware to connect to SAP Integration Suite, managed gateway for spend management and SAP Business Network, ensure that you make the required changes.
 - You need the following to configure your SAP Process Integration to send multiple payments in a batch file: Configure the communication channel for the XI adapter to:
 - Send information to SAP Integration Suite, managed gateway for spend management and SAP Business Network
 - Send information from SAP ERP or S/4HANA
 - Configure the integration scenario for the interface, `CollectivePaymentOrderBulkRequest_Out`.
 - **Namespace:** `http://sap.com/xi/ARBCIG1`
 - **Software Component Version:** If you use SAP ERP, enter ARBCI1 100 or enter ARBCI1 10S if you use SAP S/4HANA.

For more information, see [Integrating Using a Middleware in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).

- If you use a private tenant, configure the SAP Cloud Platform Integration. Ensure that you also choose the package, `XI Outbound Pass Through Content for AribaNetwork.zip`. You require this zip file along with the artifact package for SAP Business Network if you want to send payments in a batch file using the cXML format. For more information, see [Configuring SAP Cloud Platform Integration in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).

- (For Barclaycard Precisionpay) In the "**Payment Method/Country**" Details page of SAP ERP, in the **Required master record specifications** section, check the following checkboxes:
 - Street, P.O.box or P.O.box post code
 - Bank details
 - Account Number Required
 - IBAN Required
 - SWIFT Code Required
- (For Barclaycard Precisionpay) Ensure that the following country/region-specific bank details master data have been maintained in your SAP ERP:

Supplier's country/region	Bank details master data to be maintained
United States of America (US)	<p>Maintain the following:</p> <ul style="list-style-type: none"> • Account Number • ABA routing number • SWIFT BIC code <p>For a supplier in the US, SAP Business Network must receive the payments with these fields.</p>
European Union countries	<p>Maintain the following:</p> <ul style="list-style-type: none"> • IBAN ID <p>For a supplier in the EU countries, SAP Business Network must receive the payments with this field.</p>
United Kingdom (UK)	<p>Maintain the following:</p> <ul style="list-style-type: none"> • Bank account number • Bank sort code <p>For suppliers in the UK, SAP Business Network must receive the payments with these fields.</p>

- (For Barclaycard Precisionpay) Ensure that you have maintained the contact person details for the supplier. On the **Create Vendor: Initial Screen** of SAP ERP, navigate to for this configuration.

SAP Business Network

- Ensure that your SAP Business Network account has been enabled for the following:
 - To use the AribaPay payment method to make payments to suppliers.
 - To receive payment proposals and remittance information from SAP ERP. For more information on the required rules, see [SAP Business Network Buyer Administration Guide](#).
 - Ensure that you enable your SAP Business Network buyer account to use the AribaPay features. Contact SAP Ariba Support to enable your SAP Business Network account.

Restrictions

- Ensure that the remittance batch you send SAP Business Network does not exceed 20,000 lines. SAP Business Network only supports a remittance batch of up to 20,000 lines.

- SAP Ariba recommends that you send remittances that use a single payment method in a payment batch. You cannot send remittances with more than one payment method. For example, you cannot have a payment batch containing both ACH and the AribaPay payment methods.
- The Barclaycard Precisionpay integration does not support making payments to a one-time vendor whose account details are not maintained in SAP ERP or SAP S/4HANA.

Workflow to Support Sending Payments Through the cXML Format Using SAP Standard Payment Interface

The following describes the workflow for sending remittances batched together in a single cXML file from your SAP ERP system to SAP Business Network:

1. The buyer configures their SAP ERP or their middleware to use the SAP ERP enterprise services package (ECC-SE 605 or higher).
2. The buyer configures to create the payment method by country/region for AribaPay.
3. The buyer creates invoices (ERP-initiated or ERPCC invoices) on the SAP ERP system or receives invoices and credit memos that have been enabled for AribaPay from SAP Business Network. Suppliers receive the ERPCC invoices on SAP Business Network. When a supplier creates an invoice or credit memo, SAP Business Network sends the invoices or credit memos to the SAP ERP system.
4. The buyer approves the invoices or credit memos on the SAP ERP system and sends a payment proposal (`PaymentProposalRequest`) to SAP Business Network.
5. The supplier receives the `PaymentProposalRequest` or credit memos against invoices marked for AribaPay.
6. The buyer runs the standard SAP F110 Automatic payment transaction. The remittances are batched together in a single cXML file and sent to SAP Business Network. On receipt of the `PaymentBatchRequest`, SAP Business Network sends the payment details to the AribaPay provider for settlement of payment between the buyer and supplier banks.

Support Payments to International Suppliers

Buyers integrated with SAP Business Network, SAP Business Network for Supply Chain for Buyers, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send payments to international suppliers through a global payment provider. Buyers registered with the Global Payment provider, Goldman Sachs can make payments against the invoices that SAP Business Network suppliers send them in the supplier's preferred currency. Buyers can make payments to suppliers based on the currency in the invoice or based on the currency maintained for the company code.

The integrations with the Goldman Sachs Global Payments solutions provide buyers and suppliers the following benefits:

- Eliminates the need for manual payment processes
- Avoids high costs of international wire payments using prenegotiated exchange rates
- Offers payments in multiple currencies
- Tracks real-time payment status made to international suppliers

SAP ERP supports the following fields to process the payments from international suppliers with the global payment solutions:

- Payer Tax ID
- Payer Business Registration number
- Payer Account Currency
- Payment Document Amount/Currency
- Purpose of Payment
- Remittance Information
- Payee or Vendor Tax ID

[Prerequisites and Restrictions \[page 156\]](#)

Prerequisites and Restrictions

Prerequisites

SAP ERP

- You need to have the SAP ERP enterprise services package (ECC-SE 605 and higher) on your SAP ERP system.
- (Required if you are using SAP Process Integration) Ensure that you download and install the corresponding TPZ file for the SAP ERP enterprise services package. The service interface `CollectivePaymentOrderBulkRequest_Out` is referenced from the SAP namespace: `http://sap.com/xi/APPL/SE/Global`.

If you have customized the standard SAP ERP enterprise services package, ensure that you use the outbound service interface `CollectivePaymentOrderBulkRequest_Out` from the Software Component version and namespace that belongs to SAP Enterprise Service package content (ECC-SE 605 and higher) in the SAP Integration Suite, managed gateway for spend management and SAP Business Network namespace `http://sap.com/xi/APPL/SE/Global`. Use the SPROXY transaction to ensure that all the components are available on the SAP ERP system. For more information, see https://help.sap.com/doc/saphelp_me151/15.1.3/VERSIONFORSAPME/en-US/62/59a810f1c011dc2b8d000f20fc6a9/frameset.htm.

- Ensure that you have maintained the payment medium format as **CPOR_BULK**.
- Implement the standard SAP BAdI `BNK_CPOR`.
- If you use SAP ERP EHP4 and higher, ensure that you implement the methods for the standard BAdI to send payments (remittance) in a batch file to SAP Business Network. The standard SAP Enterprise service does not contain certain fields that SAP Ariba requires to process the payments.

To include information on the fields that are not available in the standard SAP Enterprise service, SAP Ariba provides an enhancement to the following methods for the standard BAdI available for the FI10 automatic payment transaction. Copy the code available in the SAP Note 2654684 for the following methods to make changes to the Collective Payment Order Bulk Request message type:

- `IF_EX_BNK_CPOR~COMPLETE_CASE_EXTENSION`
- `IF_EX_BNK_CPOR~COMPLETE_EXPLANATION`

For more information, see the section, [How to customize the payment batches](#).

- Configure and set up the settings for the XI adapter to send the payment batch files to the SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see the section [Setting Up the Connection to Connect an XI Adapter with SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#).
- Ensure that you make the necessary configuration changes to send the payment remittance request. For more information, see the section, [Configuring payment remittance request in SAP ERP and SAP S/4HANA](#) in the

SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide.

- Define the instruction keys to send the instructions for payments (payment purpose) in the payment remittance document to SAP Business Network. Ensure that you do the following:
 - You must define an instruction key for the payment method and country/region. Run the transaction code, SPRO and go to ► **Financial Accounting** > **Accounts Receivable and Accounts Payable** > **Business Transactions** > **Outgoing Payments** > **Automatic Outgoing Payments** > **Payment Media** > **Data Medium Exchange** > **Define Instruction Keys** .
 - Define the instructions for the payment transactions. Go to ► **Financial Accounting** > **Accounts Receivable and Accounts Payable** > **Business Transactions** > **Outgoing Payments** > **Automatic Outgoing Payments** > **Payment Media** > **Data Medium Exchange** > **Define Instructions for Payment Transactions** .
 - Maintain the instruction key for the vendor in the field, **Instruction key** in the [Vendor Master: Payment transaction](#) page.
- Enable the parameter, PAY_IN_DOCUMENT_CURRENCY to make payments against the invoices that SAP Business Network suppliers send them in the supplier's preferred currency (Document Currency).
- If you choose to use a middleware to connect to SAP Integration Suite, managed gateway for spend management and SAP Business Network, ensure that you make the required changes.
 - You need the following to configure your SAP Process Integration to send multiple payments in a batch file: Configure the communication channel for the XI adapter to:
 - Send information to SAP Integration Suite, managed gateway for spend management and SAP Business Network
 - Send information from SAP ERP or S/4HANA
 - Configure the integration scenario for the interface, CollectivePaymentOrderBulkRequest_Out.
 - **Namespace:** `http://sap.com/xi/ARBCIG1`
 - **Software Component Version:** If you use SAP ERP, enter ARBCIx 100 or enter ARBCIx 10S if you use SAP S/4HANA.

For more information, see the section, [How to configure your SAP Process Integration to send the multiple payments in a batch file using the XI adapter](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

Ensure that you maintain the document type, `PaymentBatchRequest` to send payment remittances in a batch to SAP Business Network.

SAP Business Network

- Ensure that your SAP Business Network account has been enabled for the following:
 - Have an active subscription to use SAP Business Network with SAP Business Network for Supply Chain for Buyers.
 - To receive payment proposals and remittance information from SAP ERP. For more information on the required rules, see [SAP Business Network Buyer Administration Guide](#).

Restrictions

- Ensure that the payment remittance batch you send to SAP Business Network does not exceed 10,000 lines. SAP Business Network only supports a remittance batch of up to 10,000 lines.
- Buyers registered with the Global Payment provider, Goldman Sachs can make payments against the invoices to SAP Business Network suppliers only for international payments. However, buyers cannot send payments for the local payments.
- SAP Ariba recommends that you send remittances that use a single payment method in a payment batch. You cannot send remittances with more than one payment method. For example, you cannot have a payment batch containing both ACH and another payment method.

Product Activity Message

Buyers enabled for SAP Business Network for Supply Chain send a product activity message to suppliers containing stock-related information for subcontracting, consignment, and forecast collaboration. The message includes details of current stock position and buyer requirement, stock available with vendors, and stock consumed by the buyer. This data is used for information or planning purposes.

The inventory of components (`ProductActivityMessage`) is a report containing an overview of the components available on the SAP ERP system.

The `ProductActivityMessage` contains the following:

- Quantities of components available for manufacturing of the fully finished or partially finished goods
- Quantities of the components sent or returned to the buyer's SAP ERP. The suppliers view the component inventory from their SAP Business Network account.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_December 2019, the **Transaction Number** of a product activity message displayed in the **Transaction Tracker** page for the following transactions are:

- Product activity message for consignment withdrawal (inventory movement): <Material Document Number> + <Fiscal year>
- Product activity message for consignment settlement (invoice): SETTLE_<Material Document Number> + <Fiscal Year>
- Product activity message for subcontract: <Material Document Number> + <Fiscal Year>

The **Transaction Number** of a product activity message displayed in the Transaction Tracker page for the following transactions are:

- Product Activity Message for SMI Extract report: <Product activity message ID>
- Product Activity Message for Forecast: <Product activity message ID>
- Product Activity Message for Subcontract report: <Product activity message ID>

SAP ERP buyers can specify the parameter, **No Zero Stock Lines** when running the program `ARBCIG_PROA_SMI_EXTRACT` on the SAP ERP system for materials having stock and materials without any stock. When buyers run the program `ARBCIG_PROA_SMI_EXTRACT` and also specify the parameter, **No Zero Stock Lines**, the SAP ERP system extracts the material information as follows:

- If you check the parameter, **No Zero Stock Lines**, the SAP ERP system does not extract the information for materials without stock. The program only extracts information for materials with stock.

The `ProductActivityMessage` that the SAP ERP sends SAP Business Network suppliers does not contain information about materials that do not have any stock and only contains information about materials with stock.

- If you do not check the parameter, **No Zero Stock Lines**, the SAP ERP system extracts the information for all materials with stock and without stock. The `ProductActivityMessage` that the SAP ERP sends SAP Business Network suppliers contains information about materials with stock and without stock.

The `ProductActivityMessage` that the SAP ERP sends SAP Business Network suppliers contains information about materials with stock and without stock.

You can send product activity messages to selected vendors by maintaining the vendor and company code for product activity message output type in the `ARBCIG_OB_VENDOR` table at  [Integration with Other SAP Components](#)  [Managed Gateway for Spend&Network for Buyer](#)  [SAP Business Network Integration](#)  [General Settings](#)  [Maintain Vendor for the Outbound Transaction](#)  The product activity message gets triggered for the vendors that are linked to the specified company code.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_March 2020, you can integrate the enhanced product activity message for supplier managed inventory and forecast collaboration. You can view a few modifications that enhance the functionality of the product activity message on its interface. The remaining enhancements are implemented through code changes and mapping changes.

The following table lists the modifications that you can view on the product activity message interface:

Category on the product activity message	New field	Purpose	Appears on the product activity message for supplier managed inventory	Appears on the product activity message for forecast collaboration
General Parameters	MRP Group	If checked, the MRP group is also considered for filtering the stock and inventory data and the forecast data of the materials. A new range parameter has been added in the <code>ARBCIG_FORECAST_PROA_F01</code> and the <code>ARBCIG_PROA_SMI_SEL_SCR</code> includes.	X	X

Category on the product activity message	New field	Purpose	Appears on the product activity message for supplier managed inventory	Appears on the product activity message for forecast collaboration
▶ Stock ▶ Additional Stock Data	Batch	<p>The behavior of this parameter depends on the value that you set for the AGGR_SMI_BATCH parameter that you set in the SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on configuration at ▶ Integration with Other SAP Components</p> <ul style="list-style-type: none"> ▶ Managed Gateway for Spend&Network for Buyer ▶ SAP Business Network Integration ▶ Application Specific Settings ▶ SAP Ariba Supply Chain Collaboration ▶ Product Activity Message ▶ Maintain Parameters and Movement Types for Product Activity <p>Message</p> <ul style="list-style-type: none"> • If you set the value of the AGGR_SMI_BATCH parameters to S, the Batch parameter that you select on this screen is functional. After you check the Batch parameter on the selection screen of the supplier managed inventory, you can send the stock details in batches. 	X	

Category on the product activity message	New field	Purpose	Appears on the product activity message for supplier managed inventory	Appears on the product activity message for forecast collaboration
		<p>If you haven't set the value of the AGGR_SMI_BATC H parameter to S, the Batch parameter on the selection screen does not function and the data extraction is dependent on the value of the AGGR_SMI_BATC H parameter set in the SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on configuration.</p> <ul style="list-style-type: none"> • If you set the value of the AGGR_SMI_BATC H parameter to 'blank', the Batch parameter on the selection screen does not function and the stock details are sent in batches. • If you set the value of the AGGR_SMI_BATC H parameter to X, the Batch parameter on the selection screen does not function and the stock details are sent aggregated at the plant level with- 		

Category on the product activity message	New field	Purpose	Appears on the product activity message for supplier managed inventory	Appears on the product activity message for forecast collaboration
		out any batch-specific details.		
► Demand ▶ Time Period □	Requirement Date	If you check this checkbox, the demand and the forecast data is selected for the date range based on the requirement date. If you do not check this checkbox, the demand and the forecast data is selected based on the delivery date.	X	X
► Demand ▶ Gross Demand □	<ul style="list-style-type: none"> • Dependent Reservation • Reservation 	<p>To include the dependent reservation data in the Gross Demand section, select Dependent Reservation.</p> <p>To include the reservation data in the Gross Demand section, select Reservation.</p>	X	
Test Mode		To preview the data in the product activity message before you send it to SAP Business Network.	X	X

The enhancements implemented for the product activity message through code changes and mapping changes in SAP Integration Suite, managed gateway for spend management and SAP Business Network are the following:

- You can create the product activity message for supplier managed inventory and forecast collaboration for specific vendors and company codes.
- To do this, you must first enter one or more vendors in the selection screens of supplier managed inventory and forecast collaboration. You must also maintain these specific vendors to which you want to send the product activity message in the **Activate Additional Outbound Messages for Specific Vendors** table. You can access this table in the SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on configuration at ► **Integration with Other SAP Components** ▶ **Managed Gateway for Spend&Network for Buyer** ▶ **SAP Business Network Integration** ▶ **General Settings** ▶ **Maintain Vendor for the Outbound Transaction** □.
- Maintaining vendors in the **Activate Additional Outbound Messages for Specific Vendors** table is in addition to maintaining vendors in the general SAP Business Network Vendor Table. In fact, in the **Activate Additional Outbound Messages for Specific Vendors** table, you can maintain only a subset of the vendors that you have maintained in the SAP Business Network Vendor Table.

Additionally, you can also maintain the company codes along with the specific vendors in the **Activate Additional Outbound Messages for Specific Vendors** table. Maintaining the company code enables you to send the product activity message for supplier managed inventory and forecast collaboration to the plants associated with that company code.

ⓘ Note

If you run the product activity message report without maintaining any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table, all the vendors in the SAP Business Network Vendor Table are considered as the recipients of the report.

For example, you maintain all your vendors in the AN Vendor Table in the SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on configuration. Now, on the selection screen of supplier managed inventory, in the **Vendor** category, you specify a range of 10 vendors, which is already part of the vendors that you have maintained in the AN Vendor Table. If you want to send the product activity message for supplier managed inventory to these 10 vendors, you must maintain these 10 vendors in the **Activate Additional Outbound Messages for Specific Vendors** table in the SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on configuration. If you want to send the product activity message for supplier managed inventory to specific plants of these vendors, you must also maintain the company codes to which these plants are associated in the **Activate Additional Outbound Messages for Specific Vendors** table.

If you have not maintained any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table or not specified any vendors on the selection screen of supplier managed inventory, the product activity message for supplier managed inventory is generated for all the vendors maintained in the SAP Business Network Vendor Table.

The following table summarizes the behavior of the product activity message based on the values maintained in the **Activate Additional Outbound Messages for Specific Vendors** table:

User's action	Values to be maintained in the Activate Additional Outbound Messages for Specific Vendors table	Result of the user's action
On the selection screen of the supplier managed inventory or the forecast collaboration, in the Vendor category, specify the range of vendors to whom you want to send the product activity message. These vendors that you specify must be already part of the vendors that you have maintained in the BN Vendor Table.	Maintain the specific vendors to whom you want to send the product activity message.	A product activity message is created for specific vendors.
On the selection screen of the supplier managed inventory or the forecast collaboration, in the Vendor category, specify the range of vendors to whom you want to send the product activity message. These vendors that you specify must be already part of the vendors that you have maintained in the BN Vendor Table.	Maintain the following: <ul style="list-style-type: none">• Specific vendors to whom you want to send the product activity message.• Specific company codes of the plants to which you want to send the product activity message.	A product activity message is created for specific vendors and specific plants.

User's action	Values to be maintained in the Activate Additional Outbound Messages for Specific Vendors table	Result of the user's action
On the selection screen of supplier managed inventory or forecast collaboration, do not specify a range of vendors.	<p>Do not maintain any vendors.</p> <p>However, you must ensure that all the vendors are maintained in the BN Vendor Table.</p>	A product activity message is created for all the vendors.
On the selection screen of the supplier managed inventory or the forecast collaboration, in the Vendor category, specify the range of vendors to whom you want to send the product activity message. These vendors that you specify must be already part of the vendors that you have maintained in the BN Vendor Table.	Maintain the specific vendors to whom you want to send the product activity message. However, do not maintain any company codes.	A product activity message is created for specific vendors and for all the plants.

- You can run the product activity message for supplier managed inventory and forecast collaboration with no data in the **Gross Demand** section of the **Demand** block. This sends a blank output XML file to SAP Business Network. Sending the product activity message with no data in the **Gross Demand** section of the **Demand** block helps suppliers replenish the stock foreseeing any future requirement. Without such a zero demand from buyers, suppliers cannot replenish the stock for buyers' future requirements. This change is implemented in the product activity message through code changes.
 - In the product activity message for supplier managed inventory and forecast collaboration, the product replenishment message, and the replenishment order, the plant's timezone has been considered instead of the ERP system's timezone. With this enhancement, the demand time series and the delivery dates are converted to the plant's time zone. For this, you must set the `USE_PLANT_TIMEZONE` parameter. The following are the date fields that are modified for each of these document types:
 - In the product activity message for supplier managed inventory and forecast collaboration, the `Time_Zone` field that contains the value of the plant timezone has been added to the proxy. While mapping in SAP Integration Suite, managed gateway for spend management and SAP Business Network, the `START_DATE` is concatenated as "`DATE`", "`00:00:00`" and "`TIMEZONE`". The `END_DATE` field is concatenated as "`DATE`", "`23:59:59`" and "`TIMEZONE`".
 - In the product replenishment message, the `START_TIME` and the `END_TIME` fields have been added to the proxy. The `DATE_CONVERSION`, `UPDATE_SCHEDULE_AGRMNT`, and `CREATE_PURCHASE_REQ` methods in the `CL_ARBCIG_SMI_REPLNISHMNT_IMPL` class have been modified. In SAP ERP, the date, time and the plant are converted to plant timezone.
 - In the replenishment order, the date, time and the plant are converted to plant timezone. The `DATE_CONVERSION`, `FILL_BAPIMEPOSCHEDULE`, `GET_MATERIAL_PLANT`, and the `FILL_BAPIMEPOITEM` methods in the `CL_ARBCIG_REPLENISH_ORDER_IMPL` class have been modified.
- For more information, see [Converting Dates on Transaction Documents to Plant-Specific Time Zone](#) of SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide.
- The product activity message for forecast collaboration considers the purchase requisitions that are deleted in SAP ERP or SAP S/4HANA between two forecast data updates.
 - Forward error handling is enabled for the forecast type in the product replenishment message.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2011 (Q4 2020), you can run the SMI report for the product activity based on the material status at plant level. You can also include the demand from the stock transfer requisitions. Use the **Plant-sp.matl status** parameter to consider the material status at plant level for filtering the stock and inventory data, and the forecast data of the materials. Use the **Stock Transfer Requisition** parameter to include the demand from stock transfer requisitions in the **Gross Demand** section of the product activity message for supplier managed inventory. For more information, see [Running Supplier-Managed Inventory \(SMI\) Report for Product Activity Message](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2111 (Q4 2021), a single cXML file is generated for the SMI product activity message that includes both inventory and demand time series data. If you are migrating from SAP Business Suite Add-On to SAP Integration Suite, managed gateway for spend management and SAP Business Network, you can continue generating a single cXML file for SMI product activity message. However, the batch details in inventory data is not supported.

ⓘ Note

Suppliers integrated with buyers using SAP Business Suite Add-On migrating to SAP Integration Suite, managed gateway for spend management and SAP Business Network can receive the single cXML file for SMI product activity messages. However, suppliers on SAP Integration Suite, managed gateway for spend management and SAP Business Network need to continue using two separate cXML files for SMI product activity messages.

Support for unrestricted and in-transit stock of materials

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network Release 2205 (Q2 2022), you can generate the product activity message for materials to include inventory at the plant level and send it to vendors assigned to the corresponding plant. For this, you can choose the **Only Intransit & Unrestricted Stock** option in the **Additional Selection Criteria** section of the **Stock for Product Activity Message** report and run the report to send the material stock of types **In-transit** and **Unrestricted** from the buyer's ERP system to SAP Business Network. For more information, see [Running Product Activity Message to Send Material Stock Inventory to SAP Business Network](#)

You can check the following in the application log:

- Vendor-Plant combination to which the product activity message is sent.
- Vendor-Plant combination to which the product activity message is not sent.

ⓘ Note

For materials that are batch-managed and/or serial number-managed, product activity message includes batch details and serial numbers for the **Unrestricted** stock. However, a batch or a serial number does not apply to the **In-transit** stock.

Translating Product Activity Message to EDI ANSI X12 846 or EDI ANSI X12 830

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), product activity message with the time series information is translated to an EDI ANSI X12 830

document. If the time series information is not available, the product activity message translates to an EDI ANSI X12 846 document.

The following table provides an overview of selection of EDI document based on the product activity message usage:

Table 4: Product activity messages usage overview

Product activity messages usage	Includes TimeSeries?	EDI selection (ANSI X12)	SAP Integration Suite, managed gateway for spend management and SAP Business Network DocType
Forecast	Always	830	ProductActivityMessage
SMI Min/Max	Never	846	SMIProductActivityMessage
SMI Inventory	Never	846	SMIProductActivityMessage
SMI Planning	Always	830	ProductActivityMessage or SMIProductActivityMessage
Consignment Movement	Never	846	ConsignmentProductActivity
Consignment Settlement	Never	846	ConsignmentProductActivity
Subcon Component Inventory	Never	846	InventoryReportProductActivity

The following table provides an overview of the process types per document type definition (DTD) for product activity message:

Table 5: Product activity message process types (per DTD)

Process Type	Applicable child elements per cXML.dtd
SMI	Inventory, ConsignmentInventory, PlanningTimeSeries, InventoryTimeSeries
VMI	Inventory, ConsignmentInventory, PlanningTimeSeries, InventoryTimeSeries
OEM	Inventory, ConsignmentInventory, TimeSeries, PlanningTimeSeries, InventoryTimeSeries
3PL	Inventory, ConsignmentInventory, PlanningTimeSeries, InventoryTimeSeries
ManufacturingVisibility	Inventory, ConsignmentInventory, PlanningTimeSeries, InventoryTimeSeries
Forecast	TimeSeries, PlanningTimeSeries
Capacity	PlanningTimeSeries

Process Type	Applicable child elements per cXML.dtd
Consignment	ConsignmentInventory, ConsignmentMovement
Sales	SalesReport
POC (PO Collaboration Scenarios)	Inventory, ConsignmentInventory, TimeSeries, PlanningTimeSeries

Product activity messages with the time series information are translated to an EDI ANSI X12 830 document using the following logic:

IF ConsignmentInventory, ConsignmentMovement, or Inventory exist AND TimeSeries, PlanningTimeSeries, or InventoryTimeSeries do not exist:

THEN 846

ELSE 830

Prerequisites and restrictions

This section describes the prerequisites and the restrictions for the enhancements to the product activity message for supplier managed inventory and forecast collaboration.

Prerequisites

The following are the prerequisites for the enhancements to the product activity message for supplier managed inventory and forecast collaboration:

- Ensure that you have enabled the SAP Business Network for Supply Chain feature.
- Ensure that you have maintained your vendors in the SAP Business Network Vendor Table (AN_VENDOR) table.
- If you want to maintain vendors in the Activate Additional Outbound Messages for Specific Vendors (ARBCIG_OB_VENDOR) table, ensure that they are also maintained in the AN_VENDOR table.
- If you want to send the suppliers in an external format, configure the ENABLE_EXTFORMAT_SUPPLIER_ONLY parameter accordingly.
- If you want to convert the master data to an external format, configure the ENABLE_EXTFORMAT_MASTERDATA parameter.
- If you want to support a single cXML file for supplier managed inventory (SMI) product activity message, you must do the following in SAP ERP or SAP S/4HANA:
 - Set the parameter AGGR_SMI_BATCH to S.
 - Check the option **Single cXML file for Stock and Demand** on the **Extract Stock/Demand for SMI Product Activity Message** screen to enable generation of a single cXML file containing both the demand and inventory information.

ⓘ Note

If the parameter AGGR_SMI_BATCH is not set to s, the option **Single cXML file for Stock and Demand** is disabled.

About Custom BAdI Fields in Product Activity Messages

You can configure custom key figures, characteristics, and ID references in BAdIs provided by the SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on. After you implement BAdIs, these fields are delivered in product activity messages through standard mappings. You do not need to create custom mappings that are unique to your planning processes to collaborate with suppliers on SAP Business Network.

The custom fields in product activity messages are as follows:

- Custom key figures in product activity messages for supplier managed inventory (SMI) and forecast processes
You can define custom key figures in BAdIs. SAP Integration Suite, managed gateway for spend management and SAP Business Network identifies these custom key figures and shares them with suppliers on SAP Business Network through standard mappings.

→ Tip

We recommend that you add **Process Type** as a filter condition with supported value **SMI** or **Forecast** in the BAdI implementation of product activity messages so that specific data is not mapped for other process types.

- Additional characteristics in product activity messages for SMI and forecast processes
In addition to standard material attributes, you can include additional characteristics along with a domain-value pair for each material in product activity details in BAdIs.
- ID references in product activity messages for SMI, forecast, and manufacturing visibility processes
An ID reference is always associated with a key figure. SAP Integration Suite, managed gateway for spend management and SAP Business Network allows you to send ID references through BAdI customization.

The XPaths that can be used to populate custom key figures, characteristics, and ID references are listed in the following table:

Custom field	XPath	Description
Key figure	/ProductActivityMessage/Header/ProductDetails/PlanningTimeSeries/type	Populate type as 'custom'.
	/ProductActivityMessage/Header/ProductDetails/PlanningTimeSeries/customType	Populate the custom key figure name in customType.
Characteristic	/ProductActivityMessage/Header/ProductDetails/ItemID/Characteristic/Domain	Populate the domain of the characteristic.

Custom field	XPath	Description
	/ProductActivityMessage/Header/ProductDetails/ItemID/Characteristic/Value	Populate the value of the characteristic.
ID reference	/ProductActivityMessage/Header/ProductDetails/PlanningTimeSeries/TimeSeriesDetails/IdReference/Domain	Populate the domain of the ID reference.
	/ProductActivityMessage/Header/ProductDetails/PlanningTimeSeries/TimeSeriesDetails/IdReference/Identifier	Populate the identifier of the ID reference.

For details about implemeting BAdls, refer to [Implementing BAdl for Supported Transactions](#).

Service Sheet Response

After receiving a service sheet from SAP Business NetworkSAP Business Network, SAP ERP or SAP S/4HANA sends the service sheet response back to SAP Business Network.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2011 (Q4 2020), you can configure an event linkage to generate a service entry sheet response in SAP ERP or SAP S/4HANA and send it to SAP Business Network and SAP Ariba Procurement solutions. You can generate the service entry sheet response after a service entry sheet containing an updated long text is deleted and to send the latest updated long text content to SAP Business Network

You can configure an event linkage to generate the service sheet response instead of using the existing implicit enhancement for the same. For more information, refer to [Maintaining Event Linkages to Generate Service Sheet Responses in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

You must ensure that the change log is not disabled. The change log is required to determine the revoking of service entry sheets.

Note

If you are using an earlier version of SAP Integration Suite, managed gateway for spend management and SAP Business Network, you can implement the customer exit to generate and send service sheet responses.

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), you can enable service sheet response integration for a specific set of suppliers and company code combination.

You can maintain these specific vendors in the **Activate Additional Outbound Messages for Specific Vendors** table (the ARBCIG_OB_VENDOR database table) in the **Maintain Vendor for the Outbound Transaction** node in SPRO.

In the **Activate Additional Outbound Messages for Specific Vendors** table, you can maintain only a subset of the vendors that you have maintained in the **SAP Business Network Vendor Table** (the BN_VENDOR table).

① Note

If you have not maintained any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table, the service sheet response transaction is integrated with SAP Business Network for all the suppliers in the **SAP Business Network Vendor Table** table.

For more information, refer to [Maintaining Specific Vendors and Company Codes as Recipients of Transactions](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Bill of Materials

Buyers can import bill of materials (BOM) from the buyer's ERP system to SAP Business Network.

BOM provides a structured list of parts or components that form a product. The BOM information that SAP ERP or SAP S/4HANA exports to SAP Business Network includes information about material, plant, validity, component quantity, unit of measure, along with BOM number, usage, and alternative BOMs.

SAP ERP or SAP S/4HANA uses SOAP messages to send BOM data to SAP Business Network. The BOM is extracted from the buyer's ERP and the BOM message is transformed to JSON format and sent to SAP Business Network.

① Note

When a material in the BOM does not have ISO UOM maintained, BOM is not extracted and SLG1 log file is generated.

Restrictions

- This feature supports only material BOMs.
- The following features are not supported:
 - Sub items for the BOM components.
 - BOM revision.
 - Multi-level BOM.
 - Extension for BOM proxy structure and customization in the XSLT mapping of SAP Integration Suite, managed gateway for spend management and SAP Business Network for BOM interface.

Inbound Transactions for SAP Business Network

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports following inbound transactions from SAP Business Network to SAP ERP or SAP S/4HANA:

[Order Confirmation \[page 171\]](#)

[Order Confirmation for Scheduling Agreement and Scheduling Agreement Release \[page 172\]](#)

- [Order Confirmation Approval \[page 173\]](#)
- [Order Confirmation Approval for Scheduling Agreements and Scheduling Agreement Releases \[page 177\]](#)
- [Ship Notice \[page 178\]](#)
- [Invoice \[page 194\]](#)
- [Payment Receipt Confirmation Request \[page 207\]](#)
- [Service Sheet \[page 208\]](#)
- [Remittance Advice \[page 214\]](#)
- [PayMeNow \[page 214\]](#)
- [Liability Transfer \[page 214\]](#)
- [Component Consumption Request \[page 215\]](#)
- [Product Replenishment Message \[page 217\]](#)
- [Replenishment Order \[page 221\]](#)

Order Confirmation

When a supplier confirms the line items in a purchase order, the supplier sends an order confirmation from SAP Business Network to the SAP ERP or SAP S/4HANA system.

SAP ERP or SAP S/4HANA add-on supports receiving order confirmations from SAP Business Network for the following:

- Confirmation or rejection of entire purchase order items that contain service line items.
- Confirmation of orders with or without delivery dates at the header or line-level.
- Confirmation of orders containing partially confirmed, rejected, and back-ordered line items.
- Confirmation of orders containing line items with multiple schedule lines (delivery dates).
- Comments at the header and line-item levels.

ⓘ Note

A PO item that contains service line items can only be confirmed or rejected in its entirety, not at the individual service line-item level.

If a delivery date is provided in SAP Business Network when creating a confirmation request, the delivery date is derived from the `confirmationRequest` cXML. Otherwise the delivery date is determined from the corresponding PO item. When the order confirmation contains line items that were rejected, SAP Business Network does not send the delivery date in the order confirmation. In such a case, SAP ERP or SAP S/4HANA add-on maps to the current date of receiving the order confirmation.

Buyers can include the manufacturer name and manufacturer Part IDs in the purchase order to ensure that the supplier obtains the item from the specified manufacturer. The manufacturer Part IDs are also included in the order confirmation and ship notice created against the purchase order. The manufacturer Part ID is available in order confirmations and ship notices for material type HERs only. Buyers can view the manufacturer PartID in the **Confirmations** tab of the purchase order.

[Prerequisites and Restrictions \[page 172\]](#)

Prerequisites and Restrictions

Prerequisites

- Ensure that you maintain the confirmation category AB to process the time tolerances in order confirmation.
- Configure the **Confirmation control key** to use the time tolerance functionality in order confirmations and ship notices.
- Ensure that you contact SAP Ariba Support to enable the order confirmation setting for integrated suppliers to send line item information. This setting is available in the SAP Business Network buyer account.
- SAP ERP does not support order confirmation that contain line items with the "Rejected" status. To process order confirmations with rejected line items that SAP Business Network sends, you must implement the SAP Note 890812 on your SAP ERP system. You must also implement the custom exit, MM06E001 to prevent errors while processing order confirmation containing line items with the "Rejected" status from SAP Business Network.

For more information, see [Implementing the Customer Exit to Process Comments and Rejected Line Items in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Restrictions

- The length of the **Confirmation #** field maintained on SAP Business Network cannot exceed 10 characters. The maximum characters allowed for the confirmation number is based on the values supported on SAP ERP or SAP S/4HANA systems.
- When you reject a line item in an order and set a new delivery date, retrieving the rejected line item will show new delivery date.
- In a partial order rejection scenario, the rejected quantity at the item level is not shown.
- For SAP Business Network Commerce Automation solution, price, quantity, and other tolerances are supported only for Order Confirmation Approval (OCA) and not for Order Confirmation (OC).

Order Confirmation for Scheduling Agreement and Scheduling Agreement Release

Buyers can receive order confirmations for scheduling agreement and scheduling agreement release documents from suppliers on SAP Business Network.

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports sending order confirmation document type for scheduling agreement and scheduling agreement release documents from SAP Business Network to their SAP ERP.

Buyers can configure the confirmation control keys to receive or block order confirmations for scheduling agreement and scheduling agreement releases from their suppliers.

The order confirmation document type for scheduling agreement and scheduling agreement release supports the following:

- Confirmation of the entire scheduling agreement and scheduling agreement release.
- Confirmation of orders containing partially confirmed line items
- Attachments at header level.
- Comments at header and line item level.
- Tolerance limits being sent along with confirmation control keys from SAP ERP to SAP Business Network.
- Evaluation of tolerances done within SAP Business Network, with no further tolerance evaluation in SAP ERP on receiving the order confirmation.

Prerequisites and Restrictions

Prerequisites

Apply the following SAP Notes:

- 810340 - To support the order confirmation document type for scheduling agreement and scheduling agreement release documents.
- 2799244 - To configure separate confirmation control keys for scheduling agreement and scheduling agreement release documents. This is to disable price change by unchecking the *Adopt Price Change* flag in the **Confirmation control key** configuration.

Restrictions

- Supports a maximum of 9999 order confirmations.
- Order confirmation for trade-off and forecast schedule lines are not supported for scheduling agreement and scheduling agreement release documents, only firm lines are supported.
- Line level attachment is only supported by implementing BAdl.
- Header level reject and reject all at item level are not supported for scheduling agreement and scheduling agreement release documents.

Order Confirmation Approval

You (buyer) can use SAP Integration Suite, managed gateway for spend management and SAP Business Network to integrate the order confirmation approvals sent from the SAP Business Network buyer portal to SAP ERP.

The order confirmation approval feature enables you to accept order confirmations submitted by the supplier, which are out of tolerance for quantity, delivery date, and price. This feature does not help you modify the original

tolerance levels set for the quantity, delivery date, and price in the purchase order. A deviation in the quantity, delivery date, and price in the order confirmation triggers an alert on the SAP Business Network buyer portal. On the SAP Business Network buyer portal, you can approve or reject the deviation.

This feature also supports order confirmation approvals for quantity and delivery date at the schedule line level. Deviations in price are supported at line item level.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2108 (Q3 2021), buyers can avail order confirmation approvals for the schedule lines containing partial goods receipts. In SAP Business Network, suppliers can send order confirmation deviations in quantity and/or in delivery date for the schedule lines containing partial goods receipt quantity. The quantity of the material for which the order confirmation approval is sent must be equal to or greater than the partial goods receipt quantity. When buyers in SAP Business Network approve such an order confirmation deviation with the action **Approve and Update**, this feature supports updating the purchase order confirmation quantity and the schedule line quantity in SAP ERP or SAP S/4HANA.

If the quantity of the material for which the order confirmation deviation has been approved is less than the partial goods receipt quantity, this feature helps validate it with the following error message in SAP ERP or SAP S/4HANA:

Order confirmation approval (OCA) is rejected. The quantity confirmed in OCA is less than the goods receipt (GR) quantity existing for the schedule line item, <PO-Schedule_Line_No>.

The deviations accepted by you can now be processed in SAP ERP. This option helps you easily procure the materials and services provided by suppliers and enhances the ability of the suppliers to meet the demand from the buyers efficiently.

ⓘ Note

Enabling the order confirmation approval feature replaces the existing order confirmation workflow. However, the order confirmation approval feature does not apply to services. Services use the order confirmation workflow.

The order confirmation approval transaction supports attachments. In the buyer's account in SAP Business Network, the buyers can add an attachment to an order confirmation approval without overwriting and/or duplicating the available attachments on the purchase order.

The order confirmation approvals include the order confirmation details as an attachment. Based on the approval that the buyer provides, the order confirmation approvals update the purchase order in SAP ERP through SAP Integration Suite, managed gateway for spend management and SAP Business Network. The following table describes the type of approval that you provide and the status that the order confirmation approvals update on the purchase order:

Status from the supplier	Type of approval by the buyer	Updated status on the purchase order in SAP ERP
Confirms the delivery of the all items or a few line items that are within the tolerance level.	Auto approve	The confirmation details on the purchase order for the items confirmed by the supplier are updated.
Confirms the delivery of the entire schedule line items or a few schedule line items with their quantity and delivery date within the tolerance level.		

Status from the supplier	Type of approval by the buyer	Updated status on the purchase order in SAP ERP
Rejects the delivery of all the items within the tolerance level.	Auto approve	The status is updated in the SLG1 logs.
Confirms the delivery of a few line items that are not within the tolerance levels.	Approve	The confirmation details on the purchase order for the items confirmed by the supplier are updated. The items that the supplier rejects are ignored.
Confirms the delivery of a few line items that are not within the tolerance levels or confirms the quantity and the delivery dates at the schedule lines outside the tolerance levels.	Approve and update PO	The confirmation details on the purchase order for the items confirmed by the supplier along with the details of the line items and/or schedule lines in the purchase order are updated.
Confirms the delivery of all the items or a few line items that are not within the tolerance level.	Reject	The status is updated in the SLG1 logs.

To integrate the order confirmation approval transaction, you can do one of the following in SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- Create a new project and define the values for parameters of the document type.
- Configure the order confirmation approval transaction as part of an existing project and define the values for parameters of the document type.

Buyers can send XML and MIME attachments in the `ApprovalRequest` documents for order confirmations.

Buyers can download the MIME envelope and the attachments from the **Transaction Tracker** on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal.

For more information about defining the values for parameters and fields of document types added for a transaction, see [Cross References Setup on SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

When integrating the order confirmation approval transaction using SAP Integration Suite, managed gateway for spend management and SAP Business Network, you can also configure the add-on to communicate with a middleware instead of directly communicating with SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Integrating Using a Middleware in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).

If you use more than one instance of SAP ERP configured with the order confirmation approval transaction, you can link the instances to a single SAP Business Network account through SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Configuring Multiple ERP Systems in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).

Note

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the integration of order confirmation approvals sent from the SAP Business Network buyer portal to SAP ERP. However, this integration will be fully functional as part of an upcoming SAP Business Network release.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network Release 2202 (Q1 2022), `Supplier part ID` in the order confirmation approval can be mapped from SAP Business Network to SAP ERP or SAP S/4HANA for purchase orders, scheduling agreements, and scheduling agreement releases.

Note

If you are using SAP EHP3 or earlier versions of SAP ERP, you must first apply SAP Note [1834548](#) to update `Supplier part ID` in SAP ERP.

Header comments, item comments, and item deviation reasons in the approval request cXML can be mapped from SAP Business Network to SAP ERP or SAP S/4HANA, which makes the information available within the order confirmation approval proxy. Then, buyers can implement BADI to consume this information received from the proxy, and make corresponding updates to purchase orders, scheduling agreements, and scheduling agreement releases.

Note

Each of the comment fields can contain a maximum of 40 characters.

To make sure that the header and item comments are successfully mapped, the same text IDs must be maintained for the purchase order, scheduling agreement, and scheduling agreement release in the cross reference parameter by choosing  **My Configurations**  **Crossrefs**  **Parameters**  **OrderRequest**  in SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Prerequisites and Limitations

This section describes the prerequisites and limitations for integrating the order confirmation approvals sent from the SAP Business Network buyer portal to SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Note

SAP recommends you to enable the forward error handling support for inbound transactions on SAP ERP or SAP S/4HANA.

Prerequisites

This section describes the prerequisites for this feature.

- Ensure that the order confirmation deviation approval feature is enabled for you (the buyer) on SAP Business Network.
- Ensure that you have applied SAP Note [2862226](#). This is to update the price modified by the supplier, which is within the specified tolerance level, in the EDI1 condition type.
- Ensure that the order confirmation approval notification feature is enabled for you on SAP Business Network.
- Ensure that the order confirmation approval at the schedule line level feature is enabled for you on SAP Business Network.

- Activate the required transaction rules.
- Ensure that the suppliers that you have selected use SAP Ariba Supply Chain Collaboration.
- Ensure that you have configured the transaction rule on the SAP Business Network buyer account to enable the suppliers to submit order confirmations that are outside the tolerance levels.

To enable the required features, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.

Restrictions

This section describes the limitations for this feature.

- This integration does not support the order confirmation approval of the following:
 - Purchase orders that include serial numbers
 - Subcontracting purchase orders
Removal of the schedule-line for a subcontracting purchase order results in the removal of the subcontracting components.
- This integration does not support line-level attachments.
- SAP Business Network does not support attachment sizes for the outbound documents exceeding 100 MB.
Ensure that the sizes of the attachments for the ApprovalRequest documents do not exceed 100 MB.
Attachments can additionally have a payload of up to 40 MB.
If you attempt to exceed the file attachment size of 100 MB or 10,000 line items (40 MB) payload, SAP ERP and SAP Business Network display an error message.
- For SAP Business Network Commerce Automation solution, price, quantity, and other tolerances are supported only for Order Confirmation Approval (OCA) and not for Order Confirmation (OC).

Order Confirmation Approval for Scheduling Agreements and Scheduling Agreement Releases

After buyers allow order confirmation deviations on SAP Business Network for scheduling agreements and scheduling agreement releases, if the supplier changes the quantity and/or delivery date during order confirmation and the change deviates out of the tolerance, the buyer needs to approve or reject the order confirmation.

ⓘ Note

The order confirmation approval for scheduling agreements and scheduling agreement releases contains information at the line item level only. The schedule lines are available in the order confirmation details attached to order confirmation approval.

The order confirmation approval can be single-level or multilevel.

- Single-level approval: The order confirmation only needs to be approved on SAP Business Network.
- Multilevel approval: The order confirmation must be approved first on SAP Business Network and then in SAP ERP or SAP S/4HANA. The second approval is done manually.

The following table shows details:

Category	If...	Acceptance Status Sent by SAP Business Network	Expected Result
Single-level approval	The buyer does not take any action.	Awaiting Approval	The order confirmation for the scheduling agreement or scheduling agreement release is not created in SAP ERP or SAP S/4HANA, and an SLG1 log is generated.
	The buyer rejects the confirmation.	Rejected	
	The buyer approves the confirmation.	Approved	The order confirmation for the scheduling agreement or scheduling agreement release is created in SAP ERP or SAP S/4HANA.
Multilevel approval	The deviation includes only quantity.	Awaiting Approval	The order confirmation for the scheduling agreement or scheduling agreement release is not created in SAP ERP or SAP S/4HANA, and an SLG1 log is generated.
	The deviation includes only delivery date.	Approved	The buyer manually updates the document in SAP ERP or SAP S/4HANA.

Restrictions

The order confirmation approval for scheduling agreements and scheduling agreement releases does not support the following:

- **SAP Business Network :**
 - Approval type **Approve and update**
 - **Tradeoff** and **Forecast** schedule lines
Only firm lines are supported. The overall confirmation item quantity is the sum of the quantity of all **Firm** schedule lines without considering the quantity from **Tradeoff** and **Forecast** schedule lines irrespective of order confirmation methods.
 - Header level reject and reject all at item level
 - Order confirmation approval with backorder status
- **SAP ERP or SAP S/4HANA :**
 - Deviation in price

Ship Notice

Suppliers send a ship notice from SAP Business Network when they are ready to ship the items in the purchase order.

You can receive ship notices with the following information from SAP Business Network suppliers:

- A single ship notice against multiple purchase orders
- Multiple ship notices against a single or multiple line items in a purchase order
- Ship notice against purchase orders having line items with zero quantity to indicate the items have not shipped
- Ship notice against a purchase order having material line-items
- Ship notices against purchase orders having `BatchIDs` for the line items

ⓘ Note

To use confirmation control keys, you need to specify the confirmation control key in purchase orders.

You are required to configure your SAP ERP or SAP S/4HANA system to accept ship notices against multiple purchase orders.

Buyers can include the manufacturer name and manufacturer Part IDs on purchase order to ensure that the supplier obtains the item from the specified manufacturer. The manufacturer Part ID is also included in the order confirmation and ship notices created against the purchase order. The manufacturer Part ID is available in order confirmations and ship notices for material type HERs only.

Support for Confirmation Control Keys

Buyers can use confirmation control keys to validate delivery quantity tolerances when suppliers create ship notices against standard purchase orders. When buyers configure the confirmation control key in ship notices, buyers can enforce or restrict suppliers in exceeding the delivery quantity while creating ship notices. This is useful when buyers require a specific shipped quantity.

The confirmation control keys specified in the ship notice are applied when a supplier creates a ship notice from their SAP Business Network account. The confirmation control keys allow buyers to override default business rules for ship notices configured on SAP Business Network.

Cancel Ship Notice

When suppliers cancel a ship notice, the inbound delivery is deleted in SAP ERP or SAP S/4HANA. When a ship notice is canceled, it is assumed that no products were received for that delivery. Suppliers cannot cancel a ship notice after receiving the associated goods receipt.

[Ship Notice Updates from SAP Business Network \[page 180\]](#)

[Component Information in Ship Notices \[page 180\]](#)

[Packaging Information with Handling Units \[page 181\]](#)

[Prerequisites and Restrictions \[page 187\]](#)

Ship Notice Updates from SAP Business Network

SAP ERP buyers integrated with SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network can receive and process updates to line items in the edited ship notices that suppliers send from SAP Business Network to the SAP ERP system. The inbound delivery document stored on the SAP ERP contains the changes in the changed ship notice.

When a supplier changes values for the line items in ship notices, SAP ERP updates the inbound delivery document on the SAP ERP system with the changes. Suppliers can change values for line items in the ship notice created against a single or multi-line purchase order, scheduling agreement, or a ship notice containing line items created against a purchase order and scheduling agreement. The edited ship notices that suppliers send from SAP Business Network can store comments and attachments.

The inbound delivery document on the SAP ERP system is updated with the following changes for the edited ship notice:

- Change in the quantity of the line items
- Deletion of line items
- Addition of line items

Buyers can maintain consistency in the line items in the ship notice and inbound delivery document.

SAP ERP can process the edited ship notice for the following changes:

- Quantity
- Delivery date
- Gross weight
- Gross weight unit of measure
- Volume
- Volume unit of measure
- Supplier batch ID

Integrated suppliers can also make updates to the ship notices and send the edited ship notices to the SAP ERP system from their back-end systems.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2505 (Q2 2025, SP 23), cancellation and deletion of inbound deliveries when Advanced Ship Notices (ASN) are canceled in SAP Business Network is supported.

Previously, when an ASN was canceled in SAP Business Network, the inbound deliveries in SAP ERP were not deleted or canceled. After an ASN order was canceled, `characters_1` was added at the end of the ID which was not available in SAP ERP.

This feature enhances `CL_ARBCIG_DISP_DELV_NOTIF_IMPL` to fetch the inbound deliveries with the old ASN ID `without_1` from the EKES table. The system now deletes multiple inbound deliveries when it's available.

Component Information in Ship Notices

Buyers integrated with SAP Business Network, SAP Business Network for Supply Chain for Buyers, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can process component

information in ship notices from SAP Business Network. Component suppliers on SAP Business Network send the component information in ship notices created against the subcontracting purchase orders.

The inbound delivery that SAP ERP creates contains the component information. The component information helps buyers and suppliers track the shipment for components efficiently.

To customize the component information, use the methods, `PRE_PROCESSING` and `POST_PROCESSING` in the `BAdl_ARBCIG_ADVANCE_SHIPMENT_NOTICE` with the parameter, `CT_LECOMP`. For more information on how to customize, see [Ship Notice](#).

Important: SAP Ariba can process the component information only for buyers using SAP ERP 6.0 EhP4 and higher.

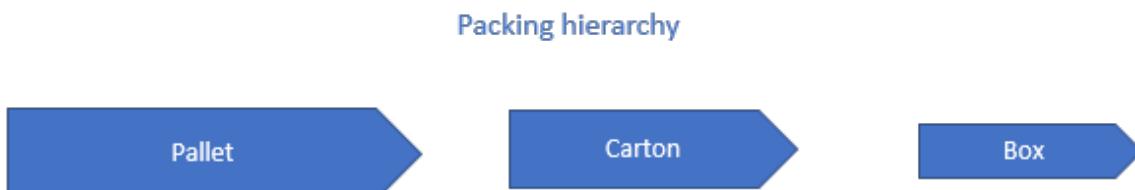
Packaging Information with Handling Units

Buyers integrated with SAP Business Network, SAP Business Network for Supply Chain for Buyers, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can process handling units in the packaging information sent in ship notices from suppliers from SAP Business Network.

A handling unit is the base unit containing the delivery item and packaging material. The handling unit has a unique standard identification number that stores detailed information of the delivery item. Handling units are used for multiple-level packaging. Handling units help warehouse agents in the logistics of shipping items to suppliers.

Buyers create packaging instructions for material items on the SAP ERP system. The packaging instructions contain detailed information of how to pack the material items for shipping. Packaging instructions help in associating the handling units automatically. Buyers define the packaging instructions containing the hierarchy of the multiple levels of packing units. The packaging instruction determines each handling unit in packing and shipping goods to the buyers. As a buyer, you define the master data for the materials with the packaging instructions on the SAP ERP system.

For example, as a buyer, you create the packaging instructions containing the packing units for shipping bottles (finished material type, FERT). In the packaging instruction, you specify the following packing hierarchy:



- Define the material (packaging material type, VERP) for the box and the packing instruction specifying that the bottle is packed in the box. Each small box is a handling unit.
- Define the material (packaging material type, VERP) for the carton and the packing instruction specifying that the carton contains the box. The carton is also a handling unit.
- Define the material (packaging material type, VERP) for the pallet and the packing instruction specifying that the pallet contains the carton. The pallet is also a handling unit.

After the buyer has uploaded the packaging instructions on SAP Business Network, the packing hierarchy is available for the supplier.

When buyers create a purchase order, buyers can include material items having handling units with the packaging information.

When a supplier creates a ship notice on SAP Business Network against the purchase order, the supplier selects items, and specifies how the items are packed for shipment. Suppliers use the packaging information that the buyers have uploaded on SAP Business Network while specifying the items to be packed in a shipment.

Suppliers can ship items to be delivered in multiple packages, but stored as a unit. Each set of delivery items can be packed in multiple packages. The delivery items are packed together in the packaging material (box, carton, rack, etc.). Each packaging material is associated with a unique code, Packaging Code. The packaging code stores the details and specifications about the items and packaging material.

For example, suppliers could pack items for delivery in boxes or cartons, and then further pack them in containers or pallet. Suppliers can view the packaging code of the items packed in each of the boxes, cartons, or containers.

When buyers create the inbound delivery on the SAP ERP system, the inbound delivery stores the information about handling units in the packaging information.

[Supporting Integration of Packing Information in Ship Notices from SAP Business Network \[page 182\]](#)

[SAP Business Network Packaging Instructions Fields \[page 184\]](#)

[Auxiliary Packaging Materials in the Packaging Information \[page 186\]](#)

Supporting Integration of Packing Information in Ship Notices from SAP Business Network

The following describes the workflow to integrate the packaging information with handling units for delivery items against ship notices from suppliers on SAP Business Network:

1. The SAP ERP buyer enables the necessary parameter for SAP Business Network for Supply Chain. Ensure that you also maintain the required settings for the packaging information. For more details, see [Prerequisites and Restrictions for Packaging Information with Handling Units \[page 190\]](#).
2. Define the master data for the materials with the packaging instructions in the SAP ERP system. The SAP ERP buyer creates the packaging information for the material item on the SAP ERP system. You define the packaging instructions containing the hierarchy of the multiple levels of handling units. The hierarchy determines each handling unit when packing and shipping goods to the buyers.

For example, as a buyer, you create the packaging instructions containing the packing units for shipping bottles. In the packaging instruction, you specify the following packing hierarchy:

- Define the material for the box and the packing instruction specifying that the bottle is packed in the box. Each small box is a handling unit.
- Define the material for the carton and the packing instruction specifying that the carton contains the box. The carton is also a handling unit.
- Define the material for the pallet and the packing instruction specifying that the pallet contains the carton. The pallet is also a handling unit.

When buyers define the master data for packaging material items, buyers can also specify the auxiliary packaging materials (packaging material category D) on the SAP ERP system. Buyers can include the auxiliary packaging materials when creating the packaging instructions for shipping material items.

Note

Ensure that you create the packaging instructions for the materials before you run the program to extract the packaging information available on the SAP ERP system.

3. Go to SPRO and run the task, **Export Packaging Data for Handling Units to SAP Business Network**, or use the Transaction code, ARBCIG ASN HU EXP to extract the packaging information for the material items available on the SAP ERP system. Save the packaging information as an Excel file on your local system. The Excel file must be in a .xlsx format.
 - If you are using SAP ERP 6.0 EHP0 to EHP3, ensure that you open the Excel file and save the file as an Excel Workbook (*.xlsx). Ensure that .xlsx is in lower case alphabets.
 - If you are using SAP ERP 6.0, EHP4 and higher, you do not need to save the file as an *.xlsx. The file is already in the *.xlsx format.

ⓘ Note

- You must run the task, **Export Packaging Data for Handling Units to SAP Business Network**, each time there is a new material or changes to the packaging information for the material items available on the SAP ERP system.
- SAP Ariba does not support uploading partial master data of handling units.

4. Go to the SAP Business Network buyer account and download the template for the packaging information. You can download the Excel template on the **Upload/Download** page.
5. Copy the packaging data from the saved Excel file available on the SAP ERP system to the SAP Business Network Excel template. Save the changes. The Excel file containing the packaging information you upload on SAP Business Network must have the following:
 - The Excel worksheet name containing the packaging data is 'Instructions'.
 - The Excel file contains the SAP Ariba banner.
 - The Excel file contains all the necessary fields that SAP Business Network requires to send the packaging information with handling units in ship notices to SAP ERP.
6. Go back to the SAP Business Network buyer account and upload the saved Excel file containing the packaging information with handling units. You upload the Excel file on the **Upload/Download** **Upload** page. Ensure that the file has been uploaded successfully.
7. On the SAP ERP system, create a purchase order for the finished material goods. Ensure that you set the confirmation control key in the **Confirmation** tab for suppliers to create ship notices. For example, 0004-Inbound delivery.
8. The supplier confirms the purchase order and sends the order confirmation to the buyer.
9. The supplier creates a ship notice against the purchase order. To pack items, the supplier does the following:
 - Click **Pack Items**.
 - If you have more than one packaging information, select the required packaging information available in the **Choose packaging instructions** field.
 - The supplier views the handling units for line items available in the packaging information that the buyer has uploaded on SAP Business Network.
 - The supplier defines the quantity to be shipped in each handling unit. For example, when the supplier creates a ship notice against the purchase order for ten bottles, the packaging instruction displays the packing hierarchy for packing the ten bottles. Suppliers can specify the following to pack ten bottles:
 - Define each bottle to be packed in a small box. You define ten small boxes containing the ten bottles.
 - Define ten small boxes to be packed in one carton.
 - Define one carton to be packed in a pallet.
10. The buyer receives the ship notice containing the packaging information from the supplier on SAP Business Network.

11. The buyer creates the inbound delivery on the SAP ERP system. The inbound delivery additionally stores the packaging information with the handling units for the box, carton, and pallet for the finished material item against the ship notice from SAP Business Network.
When a supplier sends a ship notice containing changes, SAP ERP processes the changes in the inbound delivery.
12. The buyer creates the goods receipt against the inbound delivery on the SAP ERP system and sends the receipt to the supplier on SAP Business Network.
13. The supplier creates an invoice and sends the invoice to the buyer.

SAP Business Network Packaging Instructions Fields

The **Packaging Instructions** template contains the following fields.

Field	Description	Required
Packaging Specification ID	A unique ID for the packing instruction document. The Packaging Specification ID for a material item is the same for all the packaging levels.	Required
Material	Buyer Part ID for the material item. When there are multiple material items to be packed, this material item denotes the final material item used to pack.	Optional
Material Description	Description of the material item.	Optional
Capacity	Quantity of the packing unit.	Required
Unit	Unit of measure for the quantity specified for the packing unit.	Required
Packaging Level	Level of packaging. Used when there are multiple packages for a material item. Specify 1 as the highest level of the packing hierarchy.	Required
Packaging Material	Packaging material used at each packing level. For example, box, carton, pallet	Required
Packaging Material Description	Description of the packaging material item used at each packing level.	Optional
Maximum Capacity	The maximum capacity of the packing unit.	Required
Minimum Capacity	The maximum capacity of the packing unit.	Required
Length	The length of the package or material item. Used when specifying the dimension of the package.	Required
Unit Length	The length of the package or material item per unit. Used when specifying the dimension of the package.	Required
Height	The height of the package or material item. Used when specifying the dimension of the package.	Required
Unit Height	The height of the package or material item per unit. Used when specifying the dimension of the package.	Required
Width	The width of the package or material item. Used when specifying the dimension of the package.	Required
Unit Width	The width of the package or material item per unit. Used when specifying the dimension of the package.	Required

Field	Description	Required
Volume	The volume of the package or material item. Used when specifying the dimension of the package.	Required
Unit Volume	The volume of the package or material item per unit. Used when specifying the dimension of the package.	Required
Net Weight	The total weight of the package or material item. Used when specifying the dimension of the package.	Required
Gross Weight	The total weight, including packaging.	Required
Unit Gross Weight	The gross weight per unit of the item.	Required
Total Volume	The total volume, including packaging.	Required
Unit Total Volume	The total volume per unit of the item.	Required
Parent Packaging Material	The parent packaging material. Used when there are multiple packages for a material item. Specify the parent to the immediate level of the packing hierarchy. For example, you have packed one box in a carton. Here the carton is the parent packaging material for the box.	Required when there are multiple packages for a material item.
Create Handling Unit	Always set to Yes to generate the packing instructions automatically based on the specifications.	Required Valid values: Yes , No , or blank.
Allow Mixed	Set to No . To pack multiple materials in the same packaging material and in a single handling unit.	Required Valid values: Yes , No , or blank.
<i>Is Auxiliary</i>	Set to Yes to include auxiliary packaging material. To define the packaging material as an auxiliary packaging material.	Required for auxiliary packaging material. Valid values: Yes , No , or blank.
<i>Is Printable</i>	Set to No . To print the handling units.	Required packaging material. Valid values: <ul style="list-style-type: none"> • Yes if you are defining the

Field	Description	Required
	<p>handling units for other packaging material</p> <ul style="list-style-type: none"> • By default, the value is set to No for auxiliary packaging material. 	
<i>Is Default</i>	<p>Set to Yes.</p> <p>Applicable when the material is associated to multiple packing instructions. Contains information about the default option. Buyers can edit this value in the packaging instructions to specify when the material is associated to multiple packaging instructions.</p>	<p>Required for auxiliary packaging material.</p> <p>Default value: Yes</p>

Auxiliary Packaging Materials in the Packaging Information

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network 2003 (Q1 2020) release, buyers integrated with SAP Business Network, SAP Business Network for Supply Chain for Buyers, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can include the auxiliary packaging materials in the packaging specification. The auxiliary packaging materials that buyers send with the packaging instruction from the SAP ERP system help suppliers to adhere to the packaging structure in the ship notices.

When buyers define the master data for packaging material items, buyers can also specify the auxiliary packaging materials (packaging material category D) on the SAP ERP system. Buyers can include the auxiliary packaging materials when creating the packaging instructions for shipping material items.

Note

Buyers must assign a packaging material type to each packaging material they create on the SAP ERP system.

Buyer can include the following item types in the packaging instructions:

- M - Materials packed

- P - Packaging material that is used to package the material
- I - Subordinate packing instructions (for multilevel packaging)

Buyers can run the **Export Packaging Data for Handling Units to SAP Business Network** report to export packaging instructions from the ERP system to SAP Business Network. The packaging instructions that this report exports include the auxiliary packaging material information as well. Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network Release 2205 (Q2 2202), the assignment of parent packaging material to auxiliary packaging materials is supported. On the **Export Packaging Data for Handling Units to SAP Business Network** report, the following enhancements are supported:

- Extract the auxiliary material with the assignment to parent packaging material.
- Filter the packing instructions based on check profile, handling unit groups, and date of creation of packing instructions.
- Run the extraction program in the background to extract a large volume of packing instructions.

Also, the packing instructions extract displays the ERP system ID associated with the packing instructions.

The packing instructions extracted from the ERP system is saved as a Microsoft Excel file either on the local system or on the SAP application server that buyers can import to SAP Business Network. Buyers can make the necessary changes before uploading on SAP Business Network. Buyers can change the packaging instruction to specify the default packaging instruction when the downloaded file contains multiple packing instructions for the same material.

Note

Every time buyers upload the updated packing instructions to SAP Business Network, it replaces the existing packing instructions that you have uploaded to SAP Business Network. So, you must upload the packing instructions in the full load mode only.

Suppliers can choose the packaging instructions containing the auxiliary packaging materials when they create a ship notice on SAP Business Network. Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network Release 2205 (Q2 2202), SAP Business Network uses the auxiliary packaging materials at specific packaging hierarchy levels as specified in the packing instructions. In addition, the suppliers in SAP Business Network can include empty packaging material as auxiliary packaging material or as handling units with zero load quantity to the ship notice and integrate the ship notice with the buyer's ERP system.

Prerequisites and Restrictions

General prerequisites for ship notices

- To use confirmation control keys to validate delivery quantity tolerances when suppliers create ship notices against standard purchase orders, configure the confirmation control keys in purchase orders and order confirmations. When creating purchase orders, ensure that you maintain the following fields in the **Confirmations** tab.
 - Choose a value in the **Conf. Control** field for the order confirmation.
 - Check the **Acknwl.Reqd** field.
- Maintain the Confirmation control keys for the order confirmations and ship notices. Ensure that you also maintain the Confirmation categories for order confirmations(AB) and ship notices (LA).

- Buyers enabled for SAP Business Network for Supply Chain must configure the required shipping configuration to create the outbound delivery for components. Ensure that you extend the components to the sales view.
- To send the component ship notice to two different locations (two-step movement), configure the item Category Determination for delivery items. Buyers enabled for SAP Business Network for Supply Chain require this configuration.

① Note

- Although SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the time tolerances in ship notices, SAP Business Network currently does not support this functionality.

Restrictions

- Duplicate Packing Slip IDs for ship notices are not supported in SAP Integration Suite, managed gateway for spend management and SAP Business Network.

For more information on the control keys, see [cXML User's Guide](#) in the **Product Documentation > For Users** section of the Learning Center.

[Prerequisites and Restrictions for Processing Updates in Ship Notices from SAP Business Network \[page 188\]](#)

[Prerequisites for Component Information in Ship Notices \[page 189\]](#)

[Prerequisites and Restrictions for Packaging Information with Handling Units \[page 190\]](#)

[Prerequisites and Restrictions for Auxiliary Packaging Materials in the Packaging Information \[page 192\]](#)

Prerequisites and Restrictions for Processing Updates in Ship Notices from SAP Business Network

Prerequisites

You require the following to process the edited ship notices you receive from SAP Business Network:

- SAP ERP**
 - Ensure that you set up and configure your SAP ERP system to receive ship notices from SAP Business Network using SAP Integration Suite, managed gateway for spend management and SAP Business Network. You also need to configure the SAP ERP to accept attachments and comments in ship notices.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network**
 - Ensure that you maintain the necessary parameters for the document type, `ShipNoticeRequest` to send and receive ship notices.
- SAP Business Network**
 - Ensure that you enable the necessary rules for the suppliers to send ship notices. Specify the rules in the Default Transaction Rules page in your SAP Business Network buyer account. Additionally, you must also enable the transaction rule **Allow suppliers to edit existing ship notices** in the Default Transaction Rules

and Supplier Group Transaction Rules sections. Suppliers can edit an existing ship notice only if this rule is checked. This rule is disabled by default.

Note

To enable your suppliers to edit ship notice, contact SAP Ariba Support.

- Ensure that you enable the necessary settings to send control keys at the line item level for ship notices in the purchase orders. The control key setting allows suppliers and you to override the default transaction rule you specify in the SAP Business Network buyer account.
- Ensure that your suppliers use the same **Packing Slip ID** (`PackageID`) in the ship notice while editing the ship notice.

For more information on the transaction rules for SAP Business Network, see [SAP Business Network Buyer Administration Guide](#) for SAP Business Network on the SAP Help Portal.

Restrictions

- Suppliers on SAP Business Network can update multiple fields while editing the ship notice. However, SAP ERP integrated with SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network can process changes to only the following fields for existing line items in the ship notice:
 - Quantity
 - Delivery date
 - Gross weight
 - Gross weight unit of measure
 - Volume
 - Volume unit of measure
 - Supplier Batch ID
- Buyers cannot edit the ship notices that have been created on the SAP ERP system in SAP Business Network.

Prerequisites for Component Information in Ship Notices

Prerequisites

SAP ERP

- Ensure that you have enabled your SAP ERP to send subcontracting purchase orders. For more information, see [Subcontracting Purchase Order \[page 108\]](#).
- Maintain the parameter `CSC_ENABLED` for SAP Ariba Supply Chain Collaboration.
- Ensure that the stock you have for the components on the SAP ERP system has been provided to the component supplier. The stock for the same material items must also be available in the **Component Inventory** tab on SAP Business Network.

- Maintain the vendors to send the purchase order to SAP Business Network in the SAP Business Network Vendor table. Ensure that you maintain the relationship for the vendor and the company code for SAP Business Network.
- While creating the purchase order, ensure that you set the confirmation control key in the *Confirmation* tab for suppliers to create ship notices. For example, 0004-Inbound delivery.

SAP Business Network

- Configure your SAP Business Network account for SAP Business Network for Supply Chain integration for buyers and suppliers. Ensure that you have the necessary roles and permissions to send component information in ship notices.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Ensure that you enable the necessary cross references for ship notices on SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Prerequisites and Restrictions for Packaging Information with Handling Units

Prerequisites

SAP ERP

- Ensure that you create the packaging instructions for the materials packed in different packing containers on the SAP ERP system.
- Run the task or use the Transaction code, ARBCIG ASN HU EXP to extract the packaging information for the material items available on the SAP ERP system. Save the packaging information as an Excel file on your local system. The Excel file must be in .xlsx format. Run the task each time there is a new material or changes to the packaging information for the material items available on the SAP ERP system.
 - If you are using SAP ERP 6.0 EHP0 to EHP3, ensure that you open the Excel file and save the file as an Excel Workbook (*.xlsx). Ensure that .xlsx is in lower case alphabets.
 - If you are using SAP ERP 6.0, EHP4 and higher, you do not need to save the file as a *.xlsx. The file is already in the *.xlsx format.
- Copy the packaging data from the saved Excel file available on the SAP ERP system to the SAP Business Network Excel template. However, if you use the Excel file saved on your SAP ERP system, ensure that you make the following format changes that SAP Business Network requires:
 - Ensure that the worksheet name containing the packaging data is renamed from 'Sheet 1' to 'Instructions'.
 - Ensure that you insert three blank rows above the existing Row 1 in the Excel file. You require this step as the template on SAP Business Network contains the SAP Ariba banner, and the Excel file that SAP ERP extracts does not contain the SAP Ariba banner.
 - Ensure that the Excel file contains all the necessary fields that SAP Business Network requires to send the packaging information in ship notices to SAP ERP buyers. The template to upload the handling units is available on SAP Business Network buyer account.

ⓘ Note

Ensure that you do not have any blank rows after you copy and paste the packaging information data in the Excel worksheet.

- To send the packaging ID stored on the SAP ERP system in an external format without the preceding zeros to SAP Business Network, ensure that you maintain the following parameters with the value "X" in the **► Integration with Other SAP Components ➤ Managed Gateway for Spend&Network for Buyer ➤ SAP Business Network Integration ➤ General Settings ➤ External Format Conversion** page:
 - `ENABLE_EXTFORMAT_MASTERDATA`
- If you are a customer using SAP Business Network for Supply Chain, ensure that you do the following:
 - Maintain the parameter `CSC_ENABLED` for SAP Business Network for Supply Chain.
 - Ensure that you have enabled your SAP ERP to send subcontracting purchase orders. For more information, see [Subcontracting Purchase Order \[page 108\]](#).
- Before your suppliers create the ship notice, ensure that the packaging information for materials you have on the SAP ERP system is also available for suppliers on SAP Business Network.
- Maintain the vendors to send the purchase order to SAP Business Network in the SAP Business Network Vendor table. Ensure that you maintain the relationship for the vendor and the company code for SAP Business Network.
- While creating the purchase order, ensure that you set the confirmation control key in the *Confirmation* tab for suppliers to create ship notices. For example, 0004-Inbound delivery.
- Ensure that you configure the SAP ERP system to process attachments in ship notices from SAP Business Network. For more information, see [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

SAP Business Network

- Configure your SAP Business Network account for SAP Business Network for Supply Chain integration for buyers and suppliers. Ensure that you have the necessary roles and permissions to upload and download the packaging information for ship notices.
- Ensure that you enable the transaction rule, **Allow suppliers to use advanced packing on ship notices**. When you enable this rule, SAP Business Network ignores the transaction rule, **Require suppliers to provide a unique Global Individual Asset ID for line items on ship notices**.
- When you configure the **Document Number Preferences** in the **► Manage Profile ➤ Configuration** page, ensure that you maintain the value in the field, **Maximum Length** as 20. SAP ERP only supports 20 characters as the maximum length for the packing ID (*Handling unit ID*).
- SAP Business Network buyers must ensure that the packaging information is successfully uploaded on SAP Business Network. The packaging information must also be available for suppliers when they create ship notices on SAP Business Network.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Ensure that you enable the necessary cross references for ship notices on SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Restrictions

- SAP Business Network does not send the serial numbers for line items and handling units in the ship notice. As a result, SAP ERP integrated with SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the serial numbers available for line items and handling units in the ship notice.
- SAP Ariba does not support uploading partial master data of handling units.

- When suppliers edit the ship notice containing a quality certificate and packaging information, SAP Business Network displays the following error on submitting the changed ship notice:
 - Update ship notice is not allowed because some of the items have already been received.
- SAP Business Network does not support packing multiple materials in the same packaging material and as a single handling unit. For example, you cannot add two delivery items (finished material) in a single carton or container. Ensure that you specify the value for the field, *Allow Mixed* as "No" in the Excel template for packaging information.
- SAP ERP only supports 20 characters as the maximum length for the packing ID (*Handling unit ID*). Ensure that you maintain the value in the field, **Maximum Length** as 20, when you configure the values in the **Document Number Preferences** in the **Manage Profile** **Configuration** .

Prerequisites and Restrictions for Auxiliary Packaging Materials in the Packaging Information

Prerequisites

SAP ERP

- If you are a new customer and want to use the packaging instructions, see [Prerequisites and Restrictions for Packaging Information with Handling Units \[page 190\]](#).
- When buyers define the master data for the packaging material items, buyers must define a packaging material type to each packaging material they create on the SAP ERP system. Ensure that you specify the packaging material category for the auxiliary packaging materials as *D Auxiliary packaging material*. To define, run the transaction code, SPRO, go to **Logistics – General** **Handling Unit Management** **Basics** **Define Packaging Material Types** .
- Define the material group for the auxiliary packaging materials on the SAP ERP system. To define, run the transaction code, SPRO, and then go to **Logistics – General** **Handling Unit Management** **Basics** **Define Material Group for Packaging Materials** .
- Create the auxiliary packaging material and assign a packaging material type and packaging material group. Ensure that you assign the material type as *VERP Packaging*.
- Define the allowed packaging material type to the packaging material group. To define, run the transaction code, SPRO, and then go to **Logistics – General** **Handling Unit Management** **Basics** **Define Allowed Packaging Materials** .
- Check the profile settings for the packing status. To define, run the transaction code, SPRO, go to **Logistics – General** **Handling Unit Management** **Automatic Packing** **Packing Instructions Master Data** **Define Check Profile for Packing Status** .
- Create the packaging instructions.
- Run the task or use the Transaction code, ARBCIG ASN HU EXP to extract the packaging information for the material items available on the SAP ERP system. Save the packaging information as an Excel file on your local system. The Excel file must be in .xlsx format. Run the task each time there is a new material or changes to the packaging information for the material items available on the SAP ERP system.
 - If you are using SAP ERP 6.0 EHP0 to EHP3, ensure that you open the Excel file and save the file as an Excel Workbook (*.xlsx). Ensure that .xlsx is in lower case alphabets.

- If you are using SAP ERP 6.0, EHP4 and higher, you do not need to save the file as a *.xlsx. The file is already in the *.xlsx format.
- Must contain one packaging material that is a Load carrier and any additional auxiliary packaging materials as needed.
- Ensure that you download the Excel worksheet for the packaging instructions. The Excel worksheet contains the following new columns:

Column	Description
<i>Is Auxiliary</i>	Defines if the packaging material is an auxiliary packaging material
<i>Is Printable</i>	Prints the handling units. The default value is always set to <i>No</i> for auxiliary packaging materials.
<i>Is Default</i>	Contains information about the default option. Buyers can edit this value in the packaging instructions to specify when the material is associated to multiple packaging instructions.

When you run the task to extract the packaging information, SAP ERP sets the following default values in the packing instruction for the auxiliary packaging materials

Column	Description
<i>Is Auxiliary</i>	Yes
<i>Is Default</i>	Yes. Applicable when the material is associated to multiple packing instructions.

SAP Business Network

- Contact SAP Ariba Support to enable the following for your SAP Business Network account. Have your Designated Support Contact (DSC) log a service request. An SAP Ariba Support representative will follow up to complete the request:
 - Enable the following features for your site:
 - [CSC-13073: ASN HU – Usability Enhancements](#)
 - [CSC-13968: HU Retention In case ASN Edit/Draft for Portal Suppliers](#)
 - [CSC-14108: HU Retention, save pack item quantity and instruction for delta calculation](#)
 - [CSC-14352: ASN HU-Manage Handling Unit Profile for Ship Notice](#)
 - [CSC-14482: Add Item Extrinsics to HU Label API](#)
 - [CSC-14694: AN HU – Supplier and Plant determination for pack spec](#)
- Ensure that you enable the following transaction rule in your SAP Business Network buyer account:
 - **Allow suppliers to use advanced packaging on ship notices**
When you enable this rule, SAP Business Network ignores the transaction rule, **Require suppliers to provide a unique Global Individual Asset ID for line items on ship notices**.
- Ensure that relevant transaction rules are enabled on SAP Business Network to support the assignment of empty packaging materials as auxiliary packaging material or handling units with zero load quantity.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Ensure that you enable the necessary cross references for ship notices on SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Restrictions

SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the following in the packaging instructions:

- Components with item types R (Reference Material) and T (Text Items). SAP Business Network does not support these item types in the packaging instructions.
- The auxiliary packaging material must not be the *Parent Packaging Material*.
- The *Packaging Specification ID* can contain only up to three-level hierarchy for a packaging material. Although SAP ERP supports multiple hierarchy levels for the packaging material items, SAP Business Network only supports up to three levels of hierarchy. If the packaging information in the Excel file contains more than three-level hierarchy, it fails on SAP Business Network while creating a ship notice.
- The auxiliary material should be assigned to a parent packaging material in the ERP system before extracting the packaging instructions to SAP Business Network. SAP Business Network does not support the auxiliary packaging material if it does not exist as part of the packaging instructions extracted from the ERP system. So, suppliers cannot add a new auxiliary packaging material on SAP Business Network.

Invoice

Suppliers create an invoice against the purchase order sent by the buyer. Suppliers send invoices from SAP Business Network to buyers on SAP ERP or SAP S/4HANA system.

ⓘ Note

Ensure that you maintain the values in the XBLNR field only in upper case. SAP ERP and SAP S/4HANA can store only upper case values in the XBLNR field. Suppliers can view the value in the XBLNR field in the Invoice ID field.

Mapping changes have been made to invoice document type to include bank details from SAP Business Network in the invoice IDoc.

Support for Integrating Supplier's Non-PO Invoices with the Buyer's SAP ERP or SAP S/4HANA as MM Invoices

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the following:

- Non-PO based invoice containing accounting information
- Header-level credit memos against purchase orders created on SAP Business Network and then reconciled in the SAP Ariba Procurement solutions.
- Header-level credit memos against non-POs created in the SAP Ariba Procurement solutions.

ⓘ Note

- To post non-PO invoices and credit memos to SAP ERP or SAP S/4HANA, the IDOC segment, ARBCIG_ACCOUNT_DATA, is populated with data corresponding to the distribution (accounting information in cXML) data.
- To post this information to the General Ledger (G/L) account directly, implement a user exit.

Cross company code functionality for invoice

With this feature, a buyer can post credit memo for a PO-based outbound invoice using a company code that is different from the company code used in the purchase order.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_March 2020, you can also integrate the following with SAP ERP using SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- Line item level tax details in non-PO invoices that the suppliers create in SAP Business Network. The corresponding invoice and/or credit memo in SAP ERP contains the line item level tax details that are available in the non-PO invoice.
If the invoice cXML contains the tax details at the line item level, these tax details are mapped to the E1EDP04 segment of the IDoc in SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Service details and the general labor service details in the line item level in non-PO invoices that the suppliers create in SAP Business Network.
To support this integration, the service and the general labor service details are to be mapped through customization to the E1ARBCIG_NONPOSERV_DETAILS segment of the IDoc in SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information about this customization, see SAP Note [2890461](#).
- Non-PO invoices without accounting details are parked in the buyer's SAP ERP. After the buyer enters the accounting details in these parked invoices, corresponding invoices will be created in the buyer's SAP ERP.

ⓘ Note

To enable this feature, you must first apply the SAP Note [501524](#).

To integrate the parking of the non-PO invoices that do not contain accounting details, you must enable the INVOICE_PARK_NO_ACC parameter for the invoices.

Also, the customer exits EXIT_SAPLMRMH_014 and EXIT_SAPLMRMH_011 have been enhanced to support the integration of the parking of the non-PO invoices. If you are configuring non-PO invoices for the first time, you must implement these customer exists to configure this feature.

SAP ERP buyers integrated with SAP Business Network, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can receive and process credit and debit memos for price adjustments against invoices created on SAP Business Network.

SAP ERP buyers can receive a credit or debit memo for any increase or decrease in prices for line items against invoices from SAP Business Network and process the price adjustments as subsequent credit and debit memos on the SAP ERP system without having to cancel the invoice. The price adjustments can include changes to taxes, shipping, charges, and discounts also.

Cancelling the Invoice in the Buyer's SAP ERP After a Supplier Cancels a Corresponding Invoice in SAP Business Network

If a supplier in SAP Business Network cancels an invoice that is created based on a purchase order from the buyer's SAP ERP, the credit memos, where quantity and price are marked with negative signs, are generated against the invoice in the buyer's SAP ERP. The quantity and the price in the credit memo are the same as that of the invoice in the buyer's SAP ERP that corresponds to the invoice canceled in SAP Business Network. After the credit memo is posted, the accounting entries in the invoice in the buyer's SAP ERP are reversed.

This feature supports canceling the invoice sent to the invoicing party specified in the purchase order and to any other alternative invoicing parties. If the invoice in the buyer's SAP ERP that corresponds to the invoice canceled in SAP Business Network contains credit memos that carry the assignment of a partial amount, this feature enables you to cancel those credit memos also.

In the purchase order, under the **Purchase Order History** tab, you can view the invoice canceled in the buyer's SAP ERP and the credit memos generated as part of canceling this invoice.

① Note

You cannot cancel FI invoices using this feature. This is because the cancellation of FI invoices is not supported on the SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on (as of ARBCI1 SP08).

Parking the Invoice Received from SAP Business Network That Contains Only the Header Level Information

This feature supports parking invoices from SAP Business Network containing only the header level information. To process these invoices, the buyer must enter the required information manually.

With this feature enabled in your environment, you can prevent the buyer's SAP ERP from processing the information-only invoices from SAP Business Network. When an information-only invoice is sent from SAP Business Network, it fails with the following error message in the buyer's SAP ERP:

<AN_Invoice_Number>: Could not process this Information Only invoice.

For this feature, the HEADER_FLAG and the INFO_FLAG fields are added in the E1ARBCIG_ADDITIONAL_DATA segment. If the invoice is a header invoice, the HEADER_FLAG field is checked as **X**. If the invoice is an information-only invoice, the INFO_FLAG field is checked as **X**.

① Note

This feature is supported only on the SAP ERP version **SAP EHP8 for SAP ERP 6.0 (SAP_APPL 618 Minimum supported version)**.

Support for Integrating Supplier's Non-PO Invoices with the Buyer's SAP ERP or SAP S/4HANA as FI-Invoices

This feature enables you to integrate the following supplier-created documents with the buyer's SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- A non-PO invoice. The buyers can integrate this supplier-created, non-PO invoice as FI-invoice in their SAP ERP or SAP S/4HANA.
- A non-PO credit memo. The buyers can integrate this supplier-created, non-PO credit memo as FI credit memo in their SAP ERP or SAP S/4HANA.

After this integration, a corresponding FI-invoice or FI credit memo is created in the buyer's SAP ERP or SAP S/4HANA. When a supplier deletes the non-PO invoice or the non-PO credit memo in SAP Business Network, the corresponding FI-invoice or the FI credit memo is reversed in the buyer's SAP ERP or SAP S/4HANA.

The non-PO invoice or the non-PO credit memo that the supplier creates in SAP Business Network first reaches the buyer's account in SAP Business Network. From the buyer's account in SAP Business Network, this non-PO invoice or the non-PO credit memo is sent to the buyer's SAP ERP or SAP S/4HANA through SAP Integration Suite, managed gateway for spend management and SAP Business Network. In SAP Integration Suite, managed gateway for spend management and SAP Business Network, in **Transaction Tracker**, you can view this non-PO invoice or non-PO credit memo. From SAP Integration Suite, managed gateway for spend management and SAP Business Network, the FI-invoice or FI credit memo of the document type **FIIInvoiceDetailRequest** corresponding to the non-PO invoice or non-PO credit memo from SAP Business Network is passed on to the buyer's SAP ERP using the inbound proxy **FI Invoice ERP Request** (with the technical name **InvoiceERPRRequest_In**).

You can enable the **INVOICE_PARK_NO_ACC** parameter to park the FI-invoices of the following types:

- FI-invoices without the accounting details.
- FI-invoices with discounts at the header or the line-item level. These FI-invoices are parked with only the vendor line.
- FI-invoices with unplanned costs with or without the unplanned tax details in the invoice header level. These FI-invoices are parked with only the vendor line.

If you want to post the inbound FI-invoices containing the accounting details, you must first disable the **INVOICE_PARK_NO_ACC** parameter. For more information, see [Maintaining Parameters for Invoice in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#)

① Note

If the customer faces problems in posting the SAP Ariba Invoice Management document with tax, maintain the work area as FF (FI Function Module Messages). To do this, navigate to **SAP Customizing Implementation Guide** **Cross-Application Components** **Bank Directory** and click the **IMG Activity for Change Message Control**. In the **Determine Work Area: Entry** page, in the **Work Area** field, enter **FF** and click **Save**.

In the **Analyze Application Log** (SLG1 log) view, you can use the following object and sub-object details to find the inbound FI-invoice or header-level FI credit memo on the **Display Log** page:

- Object: ARBCIG_NETWORK
- Sub-object: FI_INVOICE

The validation of the tax codes in the inbound FI-invoice occurs on the **EDI: Conversion of External Tax Rate <-> Tax Code** page. On this view, against the tax code from SAP Business Network that the supplier maintained in the FI-invoice, you can find the corresponding SAP ERP internal tax code.

On the **EDI: Conversion of External Tax Rate <-> Tax Code** view, you can view the partner type that you have configured for the **FIInvoiceDetailsRequest** document type in SAP Integration Suite, managed gateway for spend management and SAP Business Network. For this document type, you can maintain the following values in the **Invoice LSEnabled** field:

Value in the Invoice LSEnabled Field	Partner Type on the EDI: Conversion of External Tax Rate->Tax Code View
X	Partner type: LS The partner number is the logical system ID.
Blank	Partner type: LI The partner number is the vendor ID.

After the inbound FI-invoice or FI credit memo is posted in the buyer's SAP ERP, an invoice status update is sent back to SAP Business Network.

A customer on SAP Ariba Invoice Management must use the following account category names as displayed in the following list. These account category names are case-sensitive. Using any other account category names may fail the XSLT mapping.

- Percentage
- GeneralLedger
- WBSElement
- CostCenter
- Asset
- InternalOrder
- SubAsset

ⓘ Note

Only the amount derived from the **CALCULATE_TAX_FROM_NET_AMOUNT** function module is sent for the tax distribution using BAPI.

To support this feature, the following configurations are performed:

- Added the following new parameters:
 - **FI_CRDGMEM_DOC_TYPE** - To create the inbound non-PO credit memo with a specific document type. If this parameter is not maintained, **KG** is considered as the default invoice document type.
 - **FI_INV_DOC_TYPE** - To create the inbound non-PO invoice with a specific document type. If this parameter is not maintained, **KR** is considered as the default invoice document type.

- Created a new mapping in SAP Integration Suite, managed gateway for spend management and SAP Business Network to map the `FIInvoiceDetailRequest` cXML message from SAP Business Network to the `InvoiceERPRequest_In` inbound proxy.

Forward error handling is enabled for this feature.

For more information about configuring this feature, see the following sections in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#):

- [Integration Configuration to Support Supplier's Non-PO Invoices with the Buyer's SAP ERP or SAP S/4HANA as FI-Invoices](#)
- [Setting Up Cross-Reference Parameters for the `FIInvoiceDetailRequest` Document Type in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#)
- [Defining Values in the Lookup Table](#)
- [Forward Error Handling for Inbound Transactions](#)

Support for Discounts in Invoices

All discount scenarios at the header and line-level on a PO-based invoice, non-PO based invoice, and credit memo are supported.

ⓘ Note

Since SAP ERP or SAP S/4HANA systems do not have a provision to send the discount information, the discount amount is adjusted in the line amount.

Support for Including Buyer's VAT ID in Invoices Created on the Supplier's ERP

On an invoice, the supplier's VAT ID is always required. The buyer's VAT ID is required for intra-EU trade. Intra-EU is defined as trade within the European Union, where the From and To country codes are in the European Union and are different countries. This information is needed for applying appropriate VAT rules. Now, suppliers on SAP Business Network using SAP Integration Suite, managed gateway for spend management and SAP Business Network to integrate their SAP ERP with SAP Business Network can include VAT ID of buyers in invoices.

Tax Handling for Different Types of Invoices

Invoice supports the following tax handling scenarios:

- To determine the applicable tax, PO-based invoices, PO-based line-level credit memos, and header-level credit memos (either PO-based or non-PO based) use the data in segments `E1EDK04/E1EDP04` and query the OBCD transaction.
- Non-PO based invoices, non-PO line-level credit memos, and shipping or handling lines with tax use the tax code sent as cXML extended by SAP Ariba.

Enabling Support for Shipping and Handling Charges for Invoices

When a supplier creates an invoice on SAP Business Network referencing an existing purchase order, the supplier can add unplanned delivery costs such as shipping costs or special handling costs, or both, on header or item level, including taxes for shipping or special handling or for both. XSLT changes have been made to invoice to support the following scenarios:

- The supplier sends the invoice with the unplanned delivery cost at both header and line level, and also includes information on taxes for the unplanned delivery costs.
- The supplier sends the invoice with only the unplanned delivery cost at both header and line level, without the information on taxes for the delivery costs.
- The supplier sends only the shipping tax or special handling tax information without including the information on shipping costs and special handling costs.

Export of shipping and handling charges to SAP ERP and SAP S/4HANA is supported in the following cases:

- Shipping and handling charges with taxes added as service lines in General Ledger (G/L) accounts.
- Shipping and handling charges added without any tax in the `Invoice Detail Summary`.

ⓘ Note

The segment `ARBCIG_ACCOUNT_DATA` is populated with data corresponding to the shipping and handling charges service lines with taxes. To post this information as mentioned earlier, either to the G/L account directly or to unplanned delivery cost, you are required to implement a user exit.

Invoice with Ship Notice Reference or Receipt Reference

Invoices sent to SAP ERP or SAP S/4HANA can contain either a reference to a receipt or a ship notice.

In SAP ERP and SAP S/4HANA, you can validate ship notice or receipt referenced cXML invoices sent from SAP Business Network as follows:

- **Ship notice:** SAP Business Network sends the ship notice number in the invoice to SAP ERP or SAP S/4HANA and performs a two-way match in SAP ERP or SAP S/4HANA between the purchase order and ship notice and the invoice is posted in SAP ERP or SAP S/4HANA.
- **Receipt:** SAP Business Network sends the receipt number in the invoice to SAP ERP or SAP S/4HANA and performs a three-way match based on standard IV/GR functionality in SAP ERP or SAP S/4HANA. Based on the success or failure of the three-way match, the invoice is either posted or rejected in SAP ERP or SAP S/4HANA.

ⓘ Note

If a receipt is canceled after the invoice is posted in SAP ERP or SAP S/4HANA, then, the invoice in SAP ERP or SAP S/4HANA retains a reference to the canceled receipt.

Mapping the CXML Partner Field in the Invoice from SAP Business Network to the Invoicing Party Field in the Buyer's SAP ERP

By default, the invoice created in SAP Business Network based on a purchase order from the buyer's SAP ERP contains vendor ID or invoicing party ID that is available in the purchase order. This feature enables you to change the default vendor ID or invoicing party ID in the invoice to another invoicing party ID different from the one specified in the purchase order. This mapping occurs in SAP Integration Suite, managed gateway for spend management and SAP Business Network. For this, you must configure the alternative invoicing party ID in the **ERP Invoicing Party** field of the **Incoming Invoice: Map cXML Partner to ERP Invoicing Party** table in the buyer's SAP ERP. The new node **Map cXML Partner to ERP Invoicing Party** has been created to configure the alternative invoicing party ID in SAP ERP. To view this node, you can navigate to **► Integration with Other SAP Components** **► Managed Gateway for Spend&Network for Buyer** **► SAP Business Network Integration** **► Application Specific Settings** **► Invoice**. If you want to send the ERP-initiated invoices, payment remittance, canceled payment remittance, payment proposal, and the invoice status update to the vendor ID or the invoicing party ID specified in the purchase order, you must check the **Reverse Mapping** checkbox against the invoicing party ID that you maintained in the ERP Invoicing Party field.

Service Invoice

Buyers using SAP ERP and SAP S/4HANA can create invoices against a purchase order containing service type line items. Suppliers create service invoices based on approved service sheets.

You can receive and process invoices with up to five-level hierarchy created against purchase orders containing service type line items from SAP Business Network.

You can receive invoices containing the following:

- Invoices with or without hierarchy
- Invoices containing unplanned service lines.

① Note

The invoices must contain at least one-level service child line item in the hierarchical structure.

Summary Invoice

Summary invoices for multiple purchase orders are supported. Suppliers can send summary invoices for multiple purchase orders containing material items and non-material purchase orders having the standard item category.

① Note

Summary invoices for service purchase orders are not supported.

Summary invoices created against multiple purchase orders contain the following:

- Multiple line items from multiple purchase orders

- Line items containing complete and partial quantities

Direct Invoicing of Service Purchase Orders

Suppliers can directly invoice service purchase orders if the service sheets are auto-generated, or if the purchase order is created with the simplified procurement capability.

Invoicing of service purchase orders where service sheets are auto-generated

SAP ERP and SAP S/4HANA support integration of invoices containing service type line items created by the supplier for service sheets auto-generated on SAP Business Network. Auto-generated service sheets for invoices created against purchase orders with service type items contain the following:

- Line items with or without child items
- Line items with taxes

Invoicing of service purchase orders created with the simplified procurement capability

If a service purchase order is created with the simplified procurement capability, either in SAP ERP or in SAP Ariba Procurement solutions, then, suppliers or buyers can directly flip the purchase order for invoicing without creating child line items and service sheets. For more information on the simplified procurement capability for services, see [Service Purchase Orders for Simplified Procurement of Services \[page 108\]](#).

Parking the Service Invoice in SAP ERP or SAP S/4HANA Before Initiating the Service Entry Sheet

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_August 2020, buyers on SAP ERP or SAP S/4HANA integrated with SAP Business Network can park the service invoice created directly from service purchase order before initiating a service entry sheet.

[Supplier Invoices Against the Buyer's Consignment Withdrawal \[page 202\]](#)

[Prerequisites and Restrictions \[page 204\]](#)

Supplier Invoices Against the Buyer's Consignment Withdrawal

The consumption of materials by the buyers from a supplier-managed inventory is considered as consignment withdrawal. Consignment withdrawal results in the buyer's liability to the supplier. The buyer can create the invoice on behalf of the supplier against the consignment withdrawal and send it to the suppliers in SAP Business Network. However, the legal obligation in many countries requires the suppliers to create the invoice for a consignment withdrawal by the buyer. The supplier can create this invoice based on the information available in the product activity message and send it to the buyer's SAP ERP for processing. This invoice is known as the consignment invoice. With this feature, you can use SAP Integration Suite, managed gateway for spend management and SAP Business Network to integrate the consignment invoice that the suppliers have created in SAP Business Network with the buyer's SAP ERP.

The product activity message from your SAP ERP to the supplier in SAP Business Network displays the inventory details. On SAP Business Network, the supplier can navigate to  **Extended Collaboration**  **Consignment Movements**, select the material that you have consumed, and create the consignment invoice against it.

The supplier-created consignment invoice is not based on a purchase order. To create the consignment invoice, the supplier must first enter a unique invoice ID. The supplier can also enter the tax details in the header or the line-item level and add attachments or comments at the header level. The supplier can also view the material document number for which the consignment invoice is created. The material document number, which is populated from the product activity message from your SAP ERP, is preceded by the company code and followed by the year, as follows:

```
<Company code(4-digits)><Material document number><Year(4-digits)>
```

You can view the supplier-created consignment invoice in the inbox of the buyer's account of SAP Business Network. From the buyer's account in SAP Business Network, this consignment invoice is sent to your SAP ERP through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

In SAP Integration Suite, managed gateway for spend management and SAP Business Network, in **Transaction Tracker**, you can view the supplier-created consignment invoice sent from SAP Business Network to your SAP ERP. This consignment invoice of the document type `FIInvoiceDetailRequest` is passed on to your SAP ERP using the inbound proxy.

In SAP ERP, you can validate the supplier-created consignment invoice. In the **Web Service Utilities: Message Monitor** page, you can run the proxy name **FI Invoice ERP Request** (with technical name `InvoiceERPRRequest_In`) to locate the consignment invoice and view its details on the **Web Service Utilities: Message Properties** page. You can verify the information on the consignment invoice such as invoice ID, partner type, and type code on this page.

In the **Analyze Application Log** (SLG1 log) view, you can use the following object and sub-object details to find the consignment invoice on the **Display Log** page:

- **Object:** ARBCIG_NETWORK
- **Sub-object:** CONS_INVOICE

On the **Display Log** page, you can find the invoice ID in the **External Id** column.

The validation of the tax codes in the consignment invoice occurs on the **EDI: Conversion of External Tax Rate <-> Tax Code** page. On this view, against the tax code from SAP Business Network that the supplier maintained in the consignment invoice, you can find the corresponding SAP ERP internal tax code. These SAP ERP internal tax codes are mapped to corresponding tax codes of the materials maintained in the purchase info record (PIR).

On the **EDI: Conversion of External Tax Rate <-> Tax Code** view, you can view the partner type that you have configured for the `FIInvoiceDetailsRequest` document type in the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. For this document type, you can maintain the following values in the **Invoice LSEnabled** field:

Value in the Invoice LSEnabled Field	Partner Type on the EDI: Conversion of External Tax Rate<->Tax Code View
X	Partner type: LS The partner number is the logical system ID.
Blank	Partner type: LI The partner number is the vendor ID.

After the successful posting of the supplier-created consignment invoice in the buyer's SAP ERP, an invoice status update is sent back to SAP Business Network.

To support this feature, the following configuration are performed:

- Delivered a new include, `INCLUDE ARBCIG_INCL_ERPFI_CONS_INVCO1 IF FOUND`, for the `EXIT_RMVKON00_001` customer exit.
- Added the new parameter `FIINVOICE_ENABLED`.
- Added the new BAdI `ARBCIG_CONS_FI_INVOICE`.
- A new mapping is created in SAP Integration Suite, managed gateway for spend management and SAP Business Network to map the `FIInvoiceDetailRequest` cXML message from SAP Business Network to the `InvoiceERPRRequest_In` inbound proxy.

Forward error handling is enabled for the supplier-created consignment invoice.

Note

The tax information in the consignment invoice must match the tax details in the purchase info record (consignment). If the tax information does not match, the request to create the consignment invoice is forwarded to forward error handling (FEH) if enabled. If FEH is not enabled, the invoice status update request is sent to the supplier for correcting the tax information.

For more information about configuring this feature, see the following sections in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#):

- [Integration Configuration to Support Supplier's Invoice Against the Buyer's Consignment Withdrawal](#)
- [Setting Up Cross-Reference Parameters for the FIInvoiceDetailRequest Document Type in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#)
- [Defining Values in the Lookup Table](#)
- [Forward Error Handling for Inbound Transactions](#)

Prerequisites and Restrictions

Prerequisites

- You must enable invoice rules on the SAP Business Network to use this feature in SAP ERP and SAP S/4HANA.
- To send and receive invoices with hierarchy, buyer administrators must do the following:
 - Use the service-based invoicing functionality on SAP ERP and SAP S/4HANA system. The **GR based IV and S based IV** indicator on the **Invoice** tab of the purchase order contains service lines. This option is required to create separate line items for each service line in the invoice created on your SAP ERP or SAP S/4HANA system. When you enable only the **GR based IV** indicator, the quantity in the service sheet and invoices are not displayed in the **Qty** field as the quantity is aggregated.
 - Apply the SAP Note [1090663](#): *EDL: Multiple reference to same purchase order item*. This note is applicable only when you create one invoice against multiple service sheets and the corresponding purchase order does not have the **S based IV** indicator enabled.
- To receive invoices created against purchase order service lines, buyer administrators are required to use the service-based invoicing functionality on SAP ERP or SAP S/4HANA. The **S.-Based IV** indicator on the **Invoice** tab of the purchase order contains service lines. This option is required to create separate line items for each service line in the invoice created on SAP ERP or SAP S/4HANA.

- To enable the functionality to park the invoice from SAP Business Network that contains only the header level information and park the non-PO invoices without accounting details, apply the SAP Note [501524](#).
- To allow suppliers on SAP Business Network using SAP Integration Suite, managed gateway for spend management and SAP Business Network to integrate their SAP ERP with SAP Business Network to include VAT ID of buyers in invoices, ensure that the following transaction values are maintained in the buyer's ERP:
 - Buyer VAT ID: VAT registration number in XDO2
 - Supplier Tax ID: VAT registration number in OBY6 (company code data)
- To integrate supplier's non-PO invoices with the buyer's SAP ERP or SAP S/4HANA as FI-invoices, do the following:
 - To enable the functionality to park the non-PO invoices without accounting details, apply the SAP Note [2092366](#).
 - You must maintain the value **FI** in the **InvoiceProcessingType** parameter field for the **InvoiceDetailrequest** document type in the **Cross Reference Configuration - Parameter** panel on the **Project Wizard** page of the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal.
 - All the standard transactions that are being used (the OBKD and the OBKA transaction codes) must be updated.
- To integrate supplier's invoice against the buyer's consignment withdrawal, do the following:
 - Enable the **Allow suppliers to create invoices against consignment movements** transaction rule in SAP Business Network.
 - In the buyer's account of SAP Business Network, maintain the **Allow case-insensitive invoice matching** parameter to address the problem of the lower case characters in the invoice ID field of the supplier-created consignment invoice.
 - Configure the value **FI** for the **InvoiceProcessingType** parameter for the **InvoiceDetailrequest** document type in SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Implement the enhancement **MRMH0002** to process non-PO invoices with shipping and handling charges. For more information, see [Implementing Customer Exit for Invoices in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- To support taxes for unplanned delivery costs (such as shipping and handling charges) in the invoice, maintain the following configurations in SAP ERP:
 - **► SPRO > Materials Management > Logistics Invoice Verification > Incoming Invoice > Configure How Unplanned Delivery Costs Are Posted**
 - Set the posting indicator in the **T169P** table to 2, to post the unplanned delivery costs as separate GL lines.
 - **► SPRO > Materials Management > Logistics Invoice Verification > Incoming Invoice > Maintain Default Values for Tax Code**
 - SAP Integration Suite, managed gateway for spend management and SAP Business Network
 - SAP Business Network
 - Ensure that you have enabled the following rules for your suppliers to send credit and debit memos from SAP Business Network:
- To support cross company code functionality for invoice, maintain the company code for vendor ID or the logical system, using the OBKA transaction code.
- To send price adjustments in credit and debit memos, you need the following:
 - SAP Integration Suite, managed gateway for spend management and SAP Business Network
 - SAP Business Network
 - Ensure that you have enabled the following rules for your suppliers to send credit and debit memos from SAP Business Network:

- **Allow suppliers to send line-item credit memo** and **Allow suppliers to send line-item debit memo**. Additionally, you must also check the **Price Adjustment** option. For more information, see [SAP Business Network Buyer Administration Guide](#) for SAP Business Network on the SAP Help Portal.
- Ensure that your SAP Business Network account is enabled to send price adjustments in line item credit and debit memos. Please contact SAP Ariba Support to enable this functionality.
- To support parking the service invoice in SAP ERP or SAP S/4HANA before initiating the service entry sheet, do the following:
 - Apply the SAP Note: [501524](#): EDI: Parking inbound invoices in general.
 - Select **Park document** checkbox in the OBCE transaction.
 - Enable the `INV_HDR_PRK_NOSES_PGRX_ENBLD` parameter for the invoices

Restrictions

- Withholding taxes are not supported for invoices that are sent directly from SAP Business Network to SAP ERP through the SAP Integration Suite, managed gateway for spend management and SAP Business Network. Suppliers are not notified of these taxes in any preceding transaction document. As a result, suppliers enter the tax amount and information based on their knowledge. Buyers do not have the option to edit these values in the SAP ERP system.
However, withholding taxes are supported in scenarios where invoices are routed through SAP Ariba Buying and Invoicing before being sent to SAP ERP through the SAP Integration Suite, managed gateway for spend management and SAP Business Network, as buyers can make adjustments to the invoice during the reconciliation phase.
- Although the invoice for the service sheets contains taxes and other charges, SAP ERP and SAP S/4HANA add-on do not process the taxes in the service sheet.
- If you have not enabled the functionality (Integration to support simplified procurement of services), SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support service invoices without an associated service sheet. When SAP Business Network sends a service invoice without a corresponding service sheet, it fails on the SAP ERP system.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the changes to quantities in line items against invoices while processing credit and debit memos sent from SAP Business Network.
- Ensure that you do not add different tax codes at the line item level when creating invoices against service items. SAP Ariba currently does not support different tax codes at the line item in service invoices.
- Mapping the cXML Partner field in the FI and consignment invoices to the **Invoicing Party** field in the buyer's SAP ERP is not supported.
- Reverse mapping is not supported for the payment batch request, liability transfer, and the buyer remittance transactions.
- Attachments at the line level are not supported for invoices.
- Assigning an invoicing party to more than one cXML partners are not supported.
- Negative values for the quantity field in invoices are not supported.
- Canceling the cross-company invoices in the buyer's SAP ERP after a supplier cancels such an invoice in SAP Business Network is not supported.
- To support taxes for unplanned delivery costs in invoice, the values for `ShippingTaxCode` and `SpecialHandlingTaxCode` cannot be different.

- The feature to support integrating supplier's non-PO invoices with the buyer's SAP ERP or SAP S/4HANA as FI-invoices:
 - Only the shipping tax and the special handling tax are supported out of the box for unplanned taxes.
 - Does not support dual tax rates.
 - Does not support posting the FI-credit memos corresponding to the non-PO credit memos from SAP Business Network that contain accounting details in the buyer's SAP ERP or SAP S/4HANA. Such FI credit memos are parked in the buyer's SAP ERP or SAP S/4HANA.
- The feature to support integrating supplier's invoice against the buyer's consignment withdrawal does not support the following:
 - Canceling the consignment invoice.
 - Adding an invoicing party.
 - Shipping and handling costs (unplanned delivery costs) in SAP Business Network.
 - Multiple consignment movements of different customers in SAP Business Network. SAP Business Network supports the movement of multiple consignments of the same customer only.
- The managed gateway doesn't support price-based quantity for consignment invoices created in SAP ERP or loiode67dc8df01810148fb0995572c8b8b1/HANA. This is applicable for buyers that are integrated with both loiode67dc8df01810148fb0995572c8b8b1/AN and loiode67dc8df01810148fb0995572c8b8b1/P2P.
- SAP Integration Suite, managed gateway for spend management, and SAP Business Network does not support **Vendor Invoice Management**.
- Withholding tax is not supported for PO-based ERP-initiated invoices and non PO-based ERP-initiated invoices.

Payment Receipt Confirmation Request

Buyers integrated with SAP Business Network can receive the document type "payment receipt confirmation request" from their suppliers, and can send status updates to their suppliers regarding the payment receipt.

Payment receipts are sent to buyers from suppliers acknowledging receipt of payment for full or partial payments. Payment receipts provide information related to the payment including payment partner details, supplier tax ID, buyer tax ID, document submission method, and so on. Payment receipts are defined by tax authorities, such as the Mexican Tax Authority (SAT). Buyers can either approve or reject payment receipts.

What Is a Payment Receipt?

A payment receipt is a document given by a supplier to a buyer as proof of full or partial payment for a product or service. It is also referred to as a 'receipt for payment' and is created after payment has been entered on a given sale. The amount of payment can be the full amount stated on the invoice for the sale, or a partial amount. Payment receipts are useful to both the seller and the buyer, and are an additional document used in communication in the sales process.

One payment receipt may be linked to one or more invoices. Therefore, suppliers can group many invoices related to the same buyer in one document. It can also be additionally linked to another payment receipt.

Payment receipts are issued by suppliers when they receive partial payments or payments in full after the invoice date from their buyers. Failure to comply may result in a penalty levied by tax authorities. This is an effort by tax authorities to avoid inappropriate cancellations of invoices by suppliers.

Buyer Capabilities	Document Type
<ul style="list-style-type: none"> Buyers receive cXML payment receipts in their preferred system endpoints. To receive these documents, buyers must configure the endpoint in their SAP Business Network accounts. Buyers use the <code>StatusUpdateRequest</code> cXML to either approve or reject the payment receipt documents that they receive from their suppliers. 	<p>The document type "Payment Receipt Confirmation Request" is supported by SAP Business Network as a cXML <code>PaymentReceiptConfirmationRequest</code> document, and includes country/region-specific fields as well.</p>

Prerequisites

Prerequisites

- Download and install the SAP Integration Suite, managed gateway for spend management and SAP Business Network software components for SAP ERP and SAP S/4HANA from the SAP Software Download Center or the Maintenance Planner. For more information, see the following in the section, Downloading and installing the add-on from SAP ONE Support Launchpad in the SAP Integration Suite, managed gateway for spend management and SAP Business Network installation guide:
 - If you are a new customer, see the section, Downloading and installing the add-on for new customers.
 - If you are an existing customer, see the section, Upgrading the existing add-on installation for SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- You must have the SAP ERP enterprise services package (ECC-SE 605 and higher) on your SAP ERP system.

Service Sheet

Suppliers create a service sheet against a purchase order containing service type line items.

Buyers can receive service sheets containing the following:

- Service sheets with or without hierarchy
- Service sheets containing the following:
 - Planned Service
 - Unplanned Service
 - Unplanned Service from a contract

SAP ERP processes the service sheet having planned and unplanned contract line items created against a service purchase order that has a reference to a contract. The service sheet that SAP ERP or SAP S/4HANA system stores also contains information about the spend limits. The planned and unplanned contract line items store the associated contract reference (MasterAgreementID) in the service sheet.

Suppliers can change quantity and unit price in the service sheets.

① Note

- To support changes to unit price in service sheets, you are required to enable the rule **Allow suppliers to change the unit price on service sheets** on SAP Business Network.
- A supplier integrated with SAP ERP and the Ariba solution, can use SAP Ariba Invoice Management to send accounting assignment information in the service sheets to a buyer. This accounting assignment information is processed in the SAP ERP or SAP S/4HANA system. The accounting information available in the service sheets is used by the SAP ERP and SAP S/4HANA system. However, SAP ERP or SAP S/4HANA add-on does not validate the accounting information available in service sheets against the account information.

In some cases, SAP ERP or SAP S/4HANA system fails while processing multiple service sheets for the same purchase order service type item. To prevent failures while processing multiple service sheets, SAP Ariba recommends that you specify a time-out duration.

You can send additional information as attachments at the header-level in the service sheet response that you send to suppliers on SAP Business Network. Ensure that the file size for the attachment does not exceed 100 MB.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network Release 2202 (Q1 2022), suppliers in SAP Business Network can create a service sheet for the service line items that they punch out from the buyer's SAP Ariba Buying and Invoicing in response to an unplanned service purchase order with limits received from buyers. The unplanned service purchase order with limits is based on a service contract between the buyers and the suppliers. Each service line item in this service contract is assigned with a service number. This service contract is exported to the buyer's SAP Ariba Buying and Invoicing.

In response to the unplanned service purchase order from buyers, the supplier visits the buyer's SAP Ariba Buying and Invoicing and punches out the service items requested using the purchase order. The supplier creates a service sheet on SAP Business Network and posts it on the ERP system of the buyer.

The service number of the service line item is displayed in the **Service** field of the service sheet that allows further processing of the service sheet in the buyer's ERP system. For this, SAP Integration Suite, managed gateway for spend management and SAP Business Network allows mapping the **BuyerPartID** in cXML to the buyer ID in the proxy.

Unit of Measure

When a supplier adds an ad-hoc line item containing the unit of measure (UOM), SAP ERP or SAP S/4HANA add-on does not correctly process the UOM. The **Unit of Measure** field displays ***. To avoid this display, ensure that you set up the UOM configuration in the transaction CUNI on your SAP ERP or SAP S/4HANA system. For example, if the UOM used on SAP ERP or SAP S/4HANA system is PCE, maintain PCE as the internal UOM in the transaction CUNI.

Service Sheet Hierarchy

You can receive and process service sheets with up to five levels of hierarchy (one parent item and four child line items) created against purchase orders containing service type line items from SAP Business Network. Suppliers must create service sheets containing only one parent line item from a purchase order with multiple service type

line items. Service sheets against the purchase order with service type line items can have both planned and unplanned line items. These service sheets can also contain attachments. The service sheet must contain at least one-level service child line item in the hierarchical structure.

Direct Invoicing of Purchase Order Service Items

The service sheets auto-generated on SAP Business Network for the invoice containing service type line items created by the supplier and is sent to SAP ERP or SAP S/4HANA.

About the Integration to Support Canceled Service Sheets

Using this feature, the buyer (you) can integrate the service sheets that are canceled in SAP Business Network and/or SAP Ariba Procurement solutions with SAP ERP using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

This feature enables you to integrate the following from SAP Business Network:

- Service sheets that your suppliers have marked as final in SAP Business Network.
- Service sheets that your suppliers have created in SAP Business Network and later canceled before their status changed to **Approved** in the buyer's SAP ERP.
- Service sheets that your suppliers have canceled in SAP Business Network and that display the status **Approved** in the buyer's SAP ERP.
- Service sheets that your suppliers have both marked as final and canceled in SAP Business Network.

The suppliers in SAP Business Network can check the **Final Service Sheet** check box on the service sheet to mark it as final. After you integrate the final service sheet with SAP ERP, the **Final Service Sheet** checkbox on the corresponding service sheets in SAP ERP appears checked. The service sheets that have the **Final Service Sheet** check box checked indicate that no further service sheets will be created for the same service line items.

The supplier can also cancel a service sheet that is incorrectly created against a service line item. They should cancel these service sheets before the status of the service sheets changes to **Approved** in buyer's SAP ERP. After integrating these canceled service sheets with the buyer's SAP ERP, the corresponding service sheets appear canceled in the buyer's SAP ERP.

The supplier can both mark a service sheet as final and cancel it. You can integrate the canceled service sheets that are marked as final with SAP ERP.

ⓘ Note

In the buyer's SAP ERP, when buyers approve a service sheet received from SAP Business Network with **Final Service Sheet** checked, the **Deliv Complete** indicator appears in the **Delivery** tab of the corresponding service purchase order. When this service sheet is canceled in SAP Business Network and buyers integrate the canceled service sheet in the buyer's SAP ERP, the **Deliv Complete** indicator in the **Delivery** tab of the corresponding service purchase order is removed.

The **Service Sheet** proxy in SAP ERP has been modified to accept both the created and the canceled inbound service sheets from SAP Integration Suite, managed gateway for spend management and SAP Business Network. After the successful integration of canceled service sheets from SAP Business Network, SAP ERP sends a status

update request to SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

In SLG 1 logs, a new sub-object, `SES_DELETE`, has been used for the integration of canceled service sheets from SAP Business Network with SAP ERP.

This feature also enables you to integrate the following from SAP Ariba Procurement solutions:

- Service sheets that you have canceled in SAP Ariba Procurement solutions on behalf of your supplier.
- Service sheets that your suppliers have canceled in SAP Business Network and sent to the buyer's SAP ERP through SAP Ariba Procurement solutions.
- Service sheets that have the status **Processed** in SAP Ariba Procurement solutions on which you have performed the **Force Reject** operation.

You can cancel service sheets that you incorrectly created in SAP Ariba Procurement solutions on behalf of your suppliers and integrate such canceled service sheets with SAP ERP. After integration, the corresponding service sheets in SAP ERP also appear canceled and the response is sent back to SAP Ariba Procurement solutions.

Your suppliers can cancel incorrectly created service sheets in SAP Business Network. The status of these canceled service sheets is sent to SAP Ariba Procurement solutions and integrated with SAP ERP.

You can also integrate the service sheets on which you have performed the **Force Reject** operation with SAP ERP. The **Force Reject** operation helps you cancel the service sheets with the status **Processed** in SAP Ariba Procurement solutions and the status **Approved** in SAP ERP.

In SAP ERP, the **Service Sheet Export Request** proxy has been modified to receive the inbound canceled service sheets from SAP Ariba Procurement solutions integrated through SAP Integration Suite, managed gateway for spend management and SAP Business Network. After the successful integration of canceled service sheets from SAP Ariba Procurement solutions, SAP ERP sends a response to SAP Ariba Procurement solutions through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

In SLG 1 logs, a new sub-object, `SERVICE_ENTRY_SHEET`, has been used for the integration of the service sheets canceled in SAP Ariba Procurement solutions with SAP ERP.

To customize the data on the service sheet in SAP ERP before deleting it and/or to customize the action after deleting the service sheet, you can implement the BAdI `ARBCIG_SES_DELETE`.

[Prerequisites \[page 211\]](#)

[Limitations \[page 212\]](#)

[Supporting the Spend Limits in Service Sheets \[page 213\]](#)

Prerequisites

To send and receive service sheets with hierarchy, buyer administrators must do the following:

- Apply the SAP Note [1832628](#): *BAPI for service PO Entry Sheet and Contract: esll-extrow* that supports the line numbers available in the service sheets received from SAP Business Network to be maintained in the same numbered sequence on your SAP ERP or SAP S/4HANA system.
- You must use the service-based invoicing functionality on SAP ERP or SAP S/4HANA system. The **GR based IV and S based IV** indicator on the **Invoice** tab of the purchase order containing service lines is required to create separate line items for each service line in the invoice created on SAP ERP or SAP S/4HANA system. When a buyer enables only the **GR based IV** indicator, the quantity in the service sheet and invoices are not displayed in the **Qty** field as the quantity is aggregated.

- Apply the SAP Note [1090663](#): *EDI: Multiple reference to same purchase order item.* This note is applicable only when you create one invoice against multiple service sheets and the corresponding purchase order does not have the **S based IV** indicator enabled.
- Apply the SAP Note [2208145](#): *BAPI: BAPI_CONTRACT_CREATE returns ME816 to process service purchase orders having accounting information in one or more child line items successfully.*

Prerequisites for Integration to Support the Spend Limits in Service Sheets

- Ensure that you have the required rules and configurations on your SAP Business Network, SAP Ariba Procurement solutions, and SAP Integration Suite, managed gateway for spend management and SAP Business Network to send service sheets.
- Ensure that you have enabled the rule, **Allow suppliers to access your Ariba procurement applications for collaborative invoicing, requisitioning, managing time and expense sheets, and creating service sheets** for your SAP Business Network buyer account. Additionally, you also need to configure the cXML setup for the shared secret authentication on SAP Business Network.

Prerequisites for Integration to Support Canceled Service Sheets

- Ensure that the features to cancel service sheets and mark service sheets as final service sheets have been enabled on SAP Business Network.
- Ensure that the features to cancel service sheets and to export service sheet responses have been enabled on SAP Ariba Procurement solutions.

Limitations

Following are the limitations:

- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support service sheets from SAP Business Network with the status as "update" and "Delete".
- Although the service purchase order contains multiple line items, suppliers must create service sheets with only one parent line item. SAP ERP and SAP S/4HANA systems do not process service sheets containing more than one parent line item against a purchase order containing service type line items.
- Services sheets cannot contain adhoc line items (unplanned line items). Suppliers can add unplanned line items only if you maintain a value in the **Overall Limit** field in the service purchase order created on SAP ERP or SAP S/4HANA system. However, the maximum amount allowed for unplanned line items on service sheets is based on the maximum amount allowed by you on SAP Business Network and the **Overall Limit** maintained on SAP ERP or SAP S/4HANA system. The maximum allowed limit to create invoices is based on the shipped or received quantity.
- The **Final Entry** indicator option specified in service sheets on SAP ERP and SAP S/4HANA system is not supported on SAP Business Network.
- SAP Business Network allows changes to unit of measure in service sheets, but SAP ERP and SAP S/4HANA do not support changes to the unit of measure in service sheets.

- The **Gross Price** field in service sheets created on SAP ERP and SAP S/4HANA system cannot exceed nine digits. SAP ERP allows only nine digits in service sheets.
- Lower case values in the **XBLNR** (document reference number) field. SAP ERP and SAP S/4HANA can store only capital letters in the **XBLNR** field. The service sheet that buyers receive from SAP Business Network is required to have the **serviceEntryID** in uppercase to avoid errors.
- The length of the fields maintained on SAP Business Network cannot exceed the maximum characters allowed for the corresponding fields on SAP ERP or SAP S/4HANA system. The fields with limitation are:
 1. **Service Sheet #:** 16 characters and use upper case for letters.
 2. **Field Engineer:** 12 characters
 3. **Approver:** 12 characters
 4. **Description:** 40 characters
- The following are not supported:
 - Taxes
 - Charges and Allowances
 - Shipping and Handling charges
- Implement your own logic or BAdI to populate the correct account assignments. If no logic is implemented, service sheet is created without any account assignment and will not allow for approval.
- If you are a buyer integrated with SAP Business Network, SAP Ariba Procurement solutions, and SAP ERP, your suppliers on SAP Business Network can edit the service sheets and create correction service sheets and send it to SAP ERP. However, these service sheets containing negative values fail on SAP ERP. SAP ERP does not support negative values added to service sheets.
- Service sheet cannot use a currency different than the currency used in the associated purchase order.

Limitations for Integration to Support Canceled Service Sheets

- You cannot restore the service sheets that you have canceled.
- You cannot cancel individual line items in service sheets.
- When you create service entry sheets in SAP ERP or SAP S/4HANA, check the **Final Service Sheet** check box on the service sheets to mark them as final, and send them to SAP Business Network on behalf of a supplier, SAP Integration Suite, managed gateway for spend management and SAP Business Network does not transmit the **Final Service Sheet** check box indicators on the service sheets to SAP Business Network.

Supporting the Spend Limits in Service Sheets

The following is the workflow for service sheets containing the planned and unplanned contract line items created against a service purchase order with a reference to a contract on SAP Ariba Procurement solutions:

1. The buyer configures the required rules and configurations on SAP Business Network, SAP Ariba Procurement solutions, and SAP Integration Suite, managed gateway for spend management and SAP Business Network to send and receive service sheets.
2. The buyer creates a contract on SAP ERP and sends it to SAP Ariba Procurement solutions.
3. The buyer creates a purchase order referencing the contract available on the SAP ERP system.

4. The buyer sends the purchase order to SAP Business Network through the SAP Integration Suite, managed gateway for spend management and SAP Business Network. The purchase order is also sent to SAP Ariba Procurement solutions through SAP Business Network.
5. The supplier logs in to SAP Business Network and creates a service sheet against the purchase order. From the SAP Business Network account, the supplier logs in to SAP Ariba Procurement solutions and adds unplanned contract line items. The SAP Ariba Procurement solutions system stores the contract that the buyer sends from the SAP ERP system.
6. The service sheets created on SAP Business Network are sent to SAP Ariba Procurement solutions for approval.
7. SAP Ariba Procurement solutions approve the service sheet containing the planned and unplanned line items having references to the contract and send it to SAP ERP. SAP ERP creates the service sheet with reference to the contract (`MasterAgreementID`).

Remittance Advice

You can receive remittance advice for payments made against approved invoices and credit memos from SAP Business Network to your SAP ERP or SAP S/4HANA system.

If you have subscribed to make payments from a Supply Chain Financing provider, you can receive payment remittances for payments made by the provider to suppliers on SAP Business Network.

You send payment proposals for approved invoices and credit memos marked for Supply Chain Financing to SAP Business Network from your SAP ERP or SAP S/4HANA system.

PayMeNow

PayMeNow is the supplier's response to the payment proposal and indicates an early payment date and a discount. It updates the payment date and the discount amount in the accounting document, provided that the accounting document is not yet cleared.

Prerequisites:

- Apply the SAP Note [1954584](#): FI_DOCUMENT_CHANGE: Unable to change WSKTO for vendors that allows to change the field WSKTO for customer line items, but not for vendor line items.

Liability Transfer

The liability transfer cXML interface is used for Supply Chain Financing. Buyers can send the payment proposals that are marked for Supply Chain Financing from your SAP ERP or SAP S/4HANA system to the provider through SAP Business Network.

Component Consumption Request

Contract manufacturer suppliers enabled for SAP Business Network for Supply Chain can send the following information to buyers for providing an overview of the consumption of components during any phase of the production cycle:

- Real-time component consumption message
- Manufacturing execution visibility

Real-Time Component Consumption Message

After confirming the purchase order, the contract manufacturer supplier sends the details of the components used in the manufacturing of the finished goods to the buyer.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_September 2019, buyers can process material items that have been marked to include information about the component consumption when sending purchase orders from the ERP system. When buyers mark the material item to include information about the component consumption, the contract manufacturer suppliers must send the real-time consumption of components used during the production cycle to the component suppliers on SAP Business Network.

Buyers can easily track the consumption of the specific set of components used by contract manufacturers using the component consumption backflush feature.

Manufacturing Execution Visibility

The contract manufacturer suppliers can notify their buyers an overview of the status of consumption of components and the status of finished goods in production using the Manufacturing execution visibility (MES visibility) statement (`ComponentConsumptionRequest`) from SAP Business Network to the buyer's ERP system. MES visibility about the consumption of components helps buyers plan the future shipment of components to the contract manufacturer supplier.

Ensure that you define the external confirmation categories to view the manufacturing visibility for the components. To receive manufacturing visibility information, the buyers need to set up confirmation control keys for the manufacturing visibility in the purchase order in their ERP system. These confirmation control line items are updated based on the manufacturing visibility report received from SAP Business Network.

[Integration to Support Component Consumption Backflush \[page 215\]](#)

[Prerequisites and Limitations \[page 216\]](#)

Integration to Support Component Consumption Backflush

The component consumption backflush feature enables the buyers to easily track the consumption of the specific set of components used by contract manufacturers. Buyers can also trace back the exact components used in manufacturing the finished product. This is referred to as backflush.

The component consumption backflush integrated with the buyers' SAP ERP using SAP Integration Suite, managed gateway for spend management and SAP Business Network leverages the supplier batch ID that contract manufacturers assign to a finished product on SAP Business Network enabled for SAP Business Network for Supply Chain. This supplier batch ID is mapped to the header level of the material document created in the buyer's SAP ERP.

Assigning the supplier batch ID to the finished product helps the buyers to:

- Track the consumption of a specific set of components by contract manufacturers easily and replenish the stock of components of contract manufacturers.
- View all the components used for manufacturing the finished product in a single material document, which is created based on the buyer part ID, purchase order line item, and the supplier batch ID assigned to the finished product.
- Trace back the exact components used in manufacturing the finished product. This is referred to as backflush.

ⓘ Note

When the component consumption backflush is performed, the product activity message is sent back to the contract manufacturer.

The component consumption backflush helps the buyers and the suppliers identify the specific component used in a finished product.

To generate the goods receipt based on supplier batch ID, you must maintain the CONSMPTN_GR_SPLIT_BY_BATCH parameter. To do customizations, you can implement the BAdI ARBCIG_BADI_COMPNT_CONSUMPTION.

Prerequisites and Limitations

This section describes the following:

- Prerequisites for the integration to support component consumption request
- Prerequisites and limitations for the integration to support component consumption backflush

Prerequisites for Component Consumption Request

The following are the prerequisites for the integration to support component consumption request:

- Activate the business function, LOG_MM_OM_01 to view the report for the real-time component consumption process. Ensure the following:
 - Check that the order type category is CPOM.
 - Define the Cost-Accounting-Relevant Default Values for Order Type and Plants.
 - Define the relevant purchasing document type that is used for creating subcontracting PO and assign the account assignment category as "F" (Internal Order).
- Check the **RT Consum.** field in the Purchase Info Record (PIR) Purch. Organization tab to use the real-time component consumption. Ensure that you maintain a value in the **Profit Center** field for the material item in the material master.

Prerequisites for Component Consumption Backflush

The following are the prerequisites for the integration to support component consumption backflush:

- You must have enabled SAP Business Network for Supply Chain.
- You must ensure that the materials are not real-time enabled.

Limitations for Component Consumption Backflush

The following are the limitations for the integration to support component consumption backflush:

- If the buyer has not mentioned the batch ID in the purchase order and the stock contains a batch ID, then the supplier must mention the batch ID of the stock explicitly when they create component consumption.

Product Replenishment Message

Buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network and enabled for SAP Business Network for Supply Chain can let their suppliers know about their upcoming long term demand for the supply of goods. SAP Integration Suite, managed gateway for spend management and SAP Business Network supports forecast collaboration between buyers and suppliers using direct materials. The collaboration provides suppliers with real-time visibility of the buyer's supply demand. Buyers also get an overview of how suppliers manage and supply their demand for materials.

Buyers send a prediction of their demand for supply to suppliers on SAP Business Network. Buyers can send the following types of predictive statements:

- Forecast
- Supplier-managed inventory

Based on the predictive statement, suppliers plan and commit to meeting the material and quantity required by buyers over an extended period. For example, buyers have to procure frequently used materials, which the suppliers need to ship to them at periodic intervals. From the predictive statement of demand from buyers, suppliers can view the buyer's demand daily, weekly, monthly, or yearly in a table format on their SAP Business Network account. Suppliers can commit to the requested quantities based on their capacity to deliver goods. Then, suppliers can commit to shipping the materials as per the buyer's specified timeline. This also provides buyers get visibility into the supplier's shipping schedule for the materials.

SAP Integration Suite, managed gateway for spend management and SAP Business Network also supports manufacturing execution visibility statements from suppliers that help buyers get an overview of the status of consumption of components and the status of finished goods in production.

Forecast

With a forecast statement, buyers send suppliers information about their raw inventory and their demand for the minimum and maximum quantities. Suppliers review the forecast statement and commit the schedule and quantity

of material that they can ship to buyers over a period. The forecast statement allows suppliers to view the gross demand and material requirements of buyers and make the necessary changes on their end, if necessary, to meet the requirement of buyers.

Based on the material master information on their ERP system, buyers can send a forecast to suppliers that contain the following information:

- Material items in purchase requisition from externally procured suppliers
- Material items in scheduling agreement release that the buyer requires over an extended period of time
- Material items in planned orders available from the buyer's inventory stock

Supplier-Managed Inventory

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the supplier-managed inventory. With supplier-managed inventory, buyers can allow suppliers to manage their supply and demands for materials in periodic shorter timelines. This helps suppliers who work with subcontractors to make and manage products for buyers.

When buyers send a supplier-managed inventory statement for materials to suppliers, they can include information on the following:

- Own Stock
 - Unrestricted use stock
 - Blocked Stock
 - Quality Stock
- Consignment Stock
 - Unrestricted use stock
 - Blocked Stock
 - Quality Stock
- Subcontract stock at vendor
- Gross Demand
 - Planned independent requirements
 - Dependent demand
 - Sales order
- Net demand
 - Scheduling agreement release
 - Purchase requisition
 - Planned order

Suppliers review the supplier-managed inventory statement and commit the quantity and schedule for material that they can ship to the buyers over a shorter period based on the demand of the buyer. The committed schedule and quantity for the material items from suppliers are stored for the materials available in the following documents on the ERP system of the buyer:

- Schedule information in the scheduling agreement releases
- Purchase requisitions

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2211 (Q4 2022), the planned shipment date in the product replenishment message from suppliers is considered the

primary criteria to update schedule lines in scheduling agreements as part of supplier-managed inventory. The timestamp of the planned shipment lines in the product replenishment message is updated to the schedule lines in scheduling agreements in the buyer's SAP ERP or SAP S/4HANA. The creation of duplicate schedule lines that are updated as a result of product replenishment messages from suppliers is also prevented.

In addition, sending goods received quantity against each schedule line with the updated scheduling agreements and scheduling agreement releases in the ERP system of the buyers to the suppliers in SAP Business Network is also supported. The cXML field, `receivedQuantity` is used to map the goods receipt quantity at the schedule line-level in scheduling agreements and scheduling agreement releases from the ERP system of the buyers to the suppliers in SAP Business Network.

For more information, see [Maintaining Parameters for Product Replenishment Message](#)

Manufacturing Execution Visibility (MES Visibility) Statement

The contract manufacturer suppliers, who are associated with the main supplier, can use the manufacturing execution visibility (MES visibility) statement to notify the buyers of an overview of the status of consumption of components and the status of finished goods in production. For more information, see [Component Consumption Request \[page 215\]](#).

[Prerequisites and Limitations \[page 219\]](#)

[Custom BAdI Fields in Product Replenishment Messages \[page 220\]](#)

Prerequisites and Limitations

Prerequisites

You require the following before you send a forecast using the product replenishment message to suppliers on SAP Business Network:

- Ensure that your Software Component Version is SAP APPL 604 and higher.
- Based on the Software Component Version, you also need to install the corresponding ESR (Enterprise Service Repository) content from SAP Market Place. Ensure that you download and install the `SAP_APPL_6.XX_XX_XX.tpz` file for the SAP ERP Enterprise Services package.
- Purchase information record for the materials to be sent in the forecast must exist on the SAP ERP system.
- Ensure that the material information that is being sent in the forecast information to suppliers exist in the scheduling agreement release, purchase requisition, or planned orders on the SAP ERP system.
- Maintain the source list for the material items. This is required mainly if the buyer is using Material Requirement Planning (MRP) to create purchase requisition, scheduling agreement, or planned order. Ensure that you maintain the **Fixed source** indicator and the **MRP Area** for the material items.
- The scheduling agreement number needs to be maintained for the scheduling agreement containing delivery schedules.
- The buyer needs to specify the **Scheduling Agreement Release Setup Rules** in their SAP Business Network buyer account.
- The buyer needs to select the following rules for suppliers to view and commit the forecast quantity in the **Forecast Collaboration** section of their SAP Business Network buyer account:

- Allow suppliers to view forecast data
- Allow suppliers to commit to forecast data

Limitations

- When suppliers send the committed forecast information for material items over an extended period of time, buyers must make the necessary changes on their SAP ERP system to process the forecast information. SAP ERP system does not process the forecast information that suppliers send from SAP Business Network. As a result, SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support storing and processing the forecast information on the SAP ERP system. SAP Ariba recommends that buyers build their interface to process the committed forecast information that suppliers send from SAP Business Network.
However, SAP Integration Suite, managed gateway for spend management and SAP Business Network processes and stores the information that suppliers send for supplier-managed inventory material items.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the supplier-managed inventory information for the demand and minimum and maximum quantities in the forecast to suppliers on SAP Business Network. However, the document is only available in the **Pending Queue** tab in the SAP Business Network buyer's outbox. Suppliers also cannot send the committed quantities and schedules for items from the user interface on SAP Business Network. The user interface to display this information on SAP Business Network will be available as part of a later SAP Business Network release. Suppliers can send this information through the cXML routing method to the buyer's SAP ERP system. For more information, see [Configuring Document Routing](#).
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not store the same material items for a location in multiple lines in the schedule agreement. Duplicate delivery schedules for the same date is also not supported.
- Stock in transit stock is not supported in the forecast sent for supplier-managed inventory.

Custom BAdI Fields in Product Replenishment Messages

You can configure custom key figures, characteristics, and ID references in BAdIs provided by the SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on. After you implement the BAdIs, these fields are consumed in product replenishment messages through standard mappings. You do not need to create custom mappings that are unique to your planning processes to collaborate with suppliers on SAP Business Network.

The custom fields in product replenishment messages are as follows:

- Custom key figures in product replenishment messages for SMI, forecast, and manufacturing visibility processes
To support buyers' planning processes, suppliers can share additional data by using custom key figures specific to the buyers. SAP Integration Suite, managed gateway for spend management and SAP Business Network enables you to identify custom key figures and consume them through BAdI customization.
- Additional characteristics in product replenishment messages for SMI, forecast, and manufacturing visibility processes

When SAP Business Network sends product replenishment details along with additional characteristics, SAP Integration Suite, managed gateway for spend management and SAP Business Network allows you to consume these characteristics through BAdl customization.

- ID references in product replenishment messages for SMI, forecast, and manufacturing visibility processes
An ID reference is always associated with a key figure. SAP Integration Suite, managed gateway for spend management and SAP Business Network allows you to consume ID references through BAdl customization.

In addition, product replenishment messages support inventory collaboration for the SMI, forecast, and manufacturing visibility processes.

When SAP Business Network sends standard and consignment inventory data in product replenishment messages, SAP Integration Suite, managed gateway for spend management and SAP Business Network allows you to consume and process the inventory data through BAdl customization.

The XPaths that can be used to populate custom key figures, characteristics, and ID references are listed in the following table:

Custom Field	XPath	Description
Key figure	/ProductReplenishment/ProductReplenishmentDetails/ReplenishmentTimeSeries/Type	Consume the key figure through BAdl customization.
	/ProductReplenishment/ProductReplenishmentDetails/ReplenishmentTimeSeries/CustomType	
Characteristic	/ProductReplenishment/ProductReplenishmentDetails/Characteristic/Domain	Consume the characteristic through BAdl customization.
	/ProductReplenishment/ProductReplenishmentDetails/Characteristic/Value	
ID reference	/ProductReplenishment/ProductReplenishmentDetails/ReplenishmentTimeSeries/TimeSeriesDetails/IdReference/Domain	Consume the ID reference through BAdl customization.
	/ProductReplenishment/ProductReplenishmentDetails/ReplenishmentTimeSeries/TimeSeriesDetails/IdReference/Identifier	

For details about implementing BAdls, refer to [Implementing BAdl for Supported Transactions](#).

Replenishment Order

Buyers integrated with SAP ERP and/or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network and enabled for SAP Business Network for Supply Chain can effectively collaborate with suppliers to manage buyers' supplier managed inventory. Supplier-managed inventory enables suppliers to efficiently respond to the forecast demand from the buyers.

To replenish material for supplier managed inventory, the suppliers respond to a scheduling agreement release that contains scheduling lines from the buyers. However, this method does not work well for all the buyers. Moreover, this method limits the suppliers' ability to replenish material easily for a supplier-managed inventory.

Now, SAP Business Network enables suppliers to create a replenishment order for materials in buyer's supplier-managed inventory.

To update the inventory, demand, and forecast of the materials in supplier-managed inventory, buyers send a product activity message from their SAP ERP and/or SAP S/4HANA enabled for SAP Business Network for Supply Chain to SAP Business Network. Based on the forecast on the product activity message, the supplier can create a replenishment order in SAP Business Network and send it to SAP ERP and/or SAP S/4HANA of the buyer using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Based on the replenishment order received from SAP Business Network, a purchase order is generated in SAP ERP and/or SAP S/4HANA of the buyer for the material that the suppliers want to replenish for supplier-managed inventory.

SAP ERP and/or SAP S/4HANA create a purchase order for the material to be replenished based on an existing contract between the buyer and the supplier. If a contract for the material does not exist or the price of the material is not available with the `SalesOrderRequest` cXML interface, SAP ERP and/or SAP S/4HANA refer to the purchase info record for creating the purchase order. If a contract or a purchase info record does not exist, SAP ERP and/or SAP S/4HANA create a purchase order based on the information available with the `SalesOrderRequest` cXML interface. If multiple contracts or purchase info records for the material exist, SAP ERP and/or SAP S/4HANA identify the correct contract based on their validity date. If there are multiple valid contracts exist, SAP ERP and/or SAP S/4HANA create the purchase order based on the contract record that appears first.

When a replenishment order is canceled, SAP Business Network sends that information to SAP ERP and/or SAP S/4HANA through SAP Integration Suite, managed gateway for spend management and SAP Business Network. Subsequently, all the line items in the purchase order will be marked as deleted.

To integrate replenishment order with SAP ERP and/or SAP S/4HANA, the following technical changes are made:

- Created the new database table `ARBCIG_ROHISTORY` to store the replenishment order and SAP ERP purchase order.
- Maintain the `RO_DOC_TYPE` parameter to specify the document type used to create a purchase order from the replenishment order that the supplier creates for the supplier-managed inventory in SAP Business Network.
- Created the new BAdI `ARBCIG_REPLENISHMENT_ORDER` with the following methods to modify the data for creating a purchase order:

Method	Description
PRE_PROCESSING	To customize the replenishment order before creating the purchase order.
POST_PROCESSING	To customize the replenishment order after creating the purchase order

When a supplier creates a replenishment order based on a sales order, the duplicate check is based on the combination of the replenishment order ID and the vendor.

Prerequisites and Limitations

This section describes the prerequisites and the limitations for the integration to support replenishment order.

Prerequisites

Before integrating replenishment order with SAP ERP and/or SAP S/4HANA, you must ensure the following:

- Ensure that you have enabled SAP Business Network for Supply Chain.
- Ensure that you have enabled registered contract manufacturing suppliers on SAP Business Network for Supply Chain.
- Configure the product activity message to transfer the product inventory from SAP ERP and/or SAP S/4HANA to SAP Business Network.
- Maintain purchase group information in the vendor master records. The purchase groups information for creating the purchase order is taken from the vendor master records.
- Assign standard purchase organization to a plant. The purchase organization information for creating the purchase order is taken from this configuration.

Limitations

The following are the limitations for the integration to support replenishment order:

- The identification number of the replenishment order (RO Number) must not exceed 12 characters.
- The contract with the item category **L** (subcontract) is not supported for creating the subcontracting purchase order.

Quality Management

[Quality Certificates \[page 223\]](#)

[Quality Inspection \[page 227\]](#)

[Quality Notification \[page 233\]](#)

Quality Certificates

Buyers integrated with SAP Business Network, SAP Business Network for Supply Chain for Buyers, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can receive ship notices containing quality certificates from suppliers on SAP Business Network. Buyers create the quality certificate records for the inbound delivery on the SAP ERP system.

Buyers can ensure the quality of components or material items by requesting for and mandating the quality certificates for components and materials items that suppliers ship them. With the integration to support quality certificates in the ship notices, suppliers need not send the quality certificates separately through email. Buyers also need not send additional requests for quality certificates for materials or components. This integration helps both buyers and suppliers to integrate the quality certificates as part of the ship notice document flow and record all related information together seamlessly.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_September 2019, buyers can do the following when creating a purchase order:

- Mark the quality certificates as a mandatory or optional requirement at the line-item level in purchase orders.
- Specify if material items require a quality certificate at the line-item level in purchase orders. Buyers can mark the quality certificates as a mandatory or optional requirement in the purchase order.
- Mark the quality certificates as a mandatory or optional requirement when sending a request for the quality inspection of goods.

When buyers request the quality certificate for components or material items in purchase orders, suppliers can include the quality certificates at the line item level in the ship notices on SAP Business Network. Buyers receive the quality certificates as attachments in the ship notice and create the quality certificate records on the SAP ERP system.

Suppliers on SAP Business Network can send ship notices containing single or multiple quality certificates for the line items. SAP ERP creates the quality certificate record for the ship notice containing the line item in the purchase order. The quality certificate record contains information about the associated purchase order number, line item number, and the ship notice number. Suppliers must ensure that the type of quality certificate matches that requested by the buyer in the purchase order.

[Prerequisites and Restrictions \[page 224\]](#)

[Supporting Quality Certificates in SAP Business Network for Supply Chain for Buyers \[page 226\]](#)

Prerequisites and Restrictions

Prerequisites

SAP ERP

- Set up the material master on your SAP ERP or SAP S/4HANA system to use the quality management view for your procurement data. Enable the following options for the material items you use in your purchase order and require a quality check through the quality certificate from suppliers on SAP Business Network:
 - QM proc. Active
 - QM Control Key
 - Certificate type
- Maintain the vendors to send the purchase order to SAP Business Network in the SAP Business Network Vendor table. Ensure that you maintain the relationship for the vendor with the company code for SAP Business Network.
- Maintain the parameter, CSC_ENABLED for SAP Business Network for Supply Chain.
- Ensure that you configure the SAP ERP system to process attachments in ship notices from SAP Business Network. For more information, see [Supporting Attachments and Comments in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- While creating the purchase order, ensure that you set the confirmation control key in the [Confirmation tab](#) for suppliers to create ship notices. For example, 0004-Inbound delivery.

SAP Business Network

- Configure your SAP Business Network account for SAP Business Network for Supply Chain integration for buyers and suppliers. Ensure that you have the necessary roles and permissions to send quality certificates in ship notices.
- Ensure that the necessary rule, **Require suppliers to provide a quality certificate on ship notices** is enabled on SAP Business Network. This rule is dependent on the rule, **Allow suppliers to include attachments with ship notices**.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

Ensure that you enable the necessary cross references for ship notices on SAP Integration Suite, managed gateway for spend management and SAP Business Network.

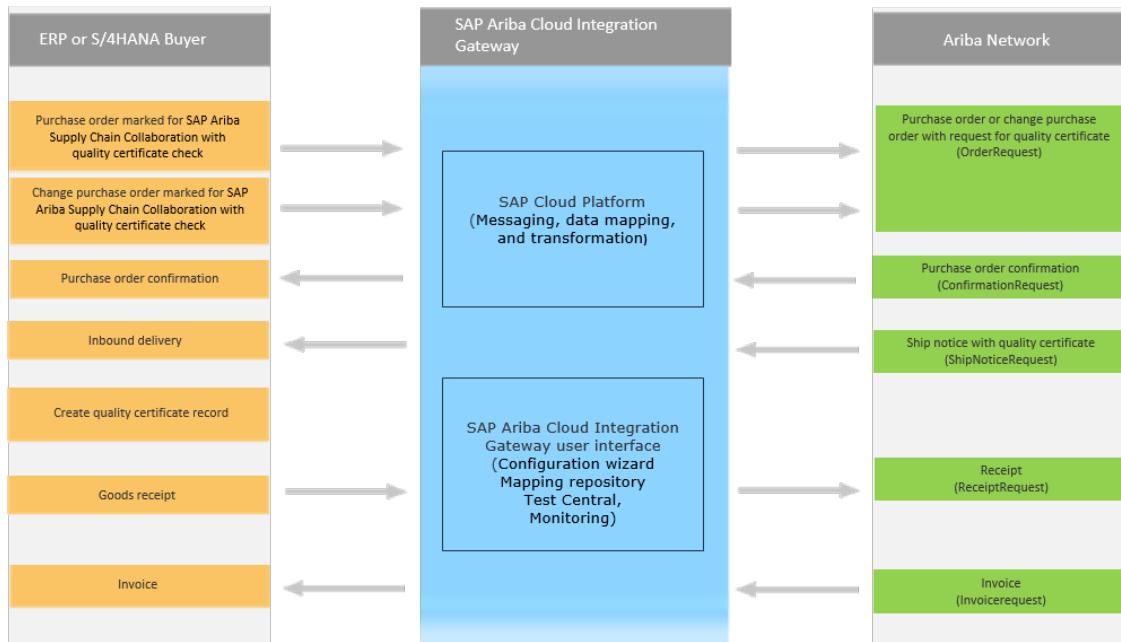
Restrictions

- Any updates or replacement to an existing quality certificate attachment at the ship notice line item level from SAP Business Network creates a new entry as a quality certificate attachment on the SAP ERP system.
- SAP ERP does not delete the quality condition record on the SAP ERP system for the following:
 - A supplier cancels the ship notice on SAP Business Network and sends the status of the canceled ship notice to SAP ERP.
 - A supplier edits the ship notice on SAP Business Network and sends the changed ship notice to SAP ERP.
 - A supplier deletes the line items in the ship notice on SAP Business Network and sends the updated ship notice to SAP ERP.

Supporting Quality Certificates in SAP Business Network for Supply Chain for Buyers

The following describes the workflow for requesting quality certificates from suppliers on SAP Business Network:

SAP Ariba Supply Chain Collaboration - Quality certificates



1. SAP ERP buyer enables the option to include the quality certificate for the component or material item when creating a purchase order on the SAP ERP system.
 2. The supplier confirms the purchase order and sends the order confirmation to the buyer.
 3. The supplier creates a ship notice against the purchase order and adds the quality certificate. The supplier can add one or more quality certificates at the line item level for components or material items.
 4. The buyer receives the ship notice containing the quality certificates as attachments from suppliers on SAP Business Network.
 5. The buyer creates the quality certificate record for the inbound delivery on the SAP ERP system. The quality certificate record contains reference to the corresponding purchase order number, purchase order line item number, and ship notice number sent from SAP Business Network, and the certificate attachment available in the ship notice. When SAP ERP creates the quality certificate record, the status of the quality certificate record is set as follows:
 - If the ship notice from SAP Business Network contains the quality certificate, the quality certificate record status is set to "Certificate received." The quality certificate attachment is added to the header of the quality certificate record that is created on the SAP ERP system. Quality Certificates attached at the line item level of an Advanced Shipping Notice can be viewed only through the QC53 t-code.
 - If the ship notice from SAP Business Network does not contain the quality certificate, but the material item requires a quality certificate from suppliers, the certificate record status is set to "Certificate is expected."
- Suppliers on SAP Business Network can send ship notices containing single or multiple quality certificates for the line items. SAP ERP creates the quality certificate record for the ship notice containing the line item in the purchase order. The quality certificate record contains information about the corresponding purchase

order number, line item number, and the ship notice number. Suppliers must ensure that the type of quality certificate matches that requested by the buyer in the purchase order.

When a supplier sends a ship notice containing changes, SAP ERP processes the changes in the inbound delivery. If the changed ship notice contains the quality certificate, the quality certificate record that SAP ERP maintains is also updated with the changes on the SAP ERP system.

When a supplier sends a ship notice with deleted line items, SAP ERP makes the necessary changes to the inbound delivery on the SAP ERP system. However, the quality certificate record for the ship notice with deleted line items remains on the SAP ERP system.

6. The buyer creates the goods receipt against the inbound delivery on the SAP ERP system and sends the receipt to the supplier on SAP Business Network.
7. The supplier creates an invoice and sends the invoice to the buyer.

Note

When SAP ERP creates the quality certificate record, SAP Business Network receives a status message from the SAP ERP system. SAP ERP also sends a status message, if the quality certificate required for the material items were missing or if there was a failure to create the quality certificate record on the SAP ERP system.

Quality Inspection

Buyers integrated with SAP Business Network, SAP Business Network for Supply Chain for Buyers solution, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send suppliers a request to inspect the quality of goods sent by them. On receiving the request, suppliers inspect the quality of goods and send the results of the quality inspection to the buyer. Buyers confirm their decision based on the quality inspection result. The quality inspection collaboration between buyers and suppliers supports a seamless process in the inspection and quality of goods.

SAP Business Network adds the DocuSign eSignature details as well as the certificate of analysis (CoA) to the inspection results that are sent to buyers. The DocuSign eSignature details sent to buyers include a file attachment and a DocuSign Envelope URL, which the buyers can use to sign in to DocuSign and verify the data. The inspection lot consists of only one Digital Signature Envelope URL and DocuSign PDF attachment at any point in time. When updates are made to the quality inspection results recording, the results are sent along with the digital signature details from SAP Business Network to the SAP ERP or SAP S/4HANA system. Revised digital signature details (attachment and URL) overwrite the existing digital signature details.

Buyers can send a quality inspection request by one of the following methods:

- Automatically send a request for quality inspection after receiving the goods receipt from a supplier OR
- Request an inspection manually after receiving an order confirmation from the supplier

Note

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_September 2019, buyers can mark the quality certificates as a mandatory or optional requirement when sending a request for the quality inspection of goods.

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the inspection plan having the following types of characteristics:

- Quantitative: Supports Summarized recording and Single result

- Qualitative: Supports Summarized recording, Single result, and that includes the code list (**Selected Set**) or does not include the code list (**Selected Set**) characteristic control indicators.

In some cases, when the buyer sends the quality inspection documents to SAP Business Network and they fail, buyers can send the quality inspection documents again from the SAP ERP system. Buyers can send the quality inspection requests that failed on SAP Business Network again.

Buyers can send the task status for a quality notification as “successful” to indicate that the quality notification task is complete and closed. When buyers send the status “Successful,” SAP Business Network sets the task for the quality notification as “Closed.”

Suppliers can send the task status for the quality notification as “Closed” and SAP ERP stores the status as “Successful.”

Once the task for the quality notification is set to closed, suppliers cannot make further changes to the task.

SAP Ariba does not delete any attachments sent in the `QualityInspectionResultRequest` message from SAP Business Network, but stores each attachment as a new file each time on the SAP ERP system. As a result, there are duplicate attachment files on the SAP ERP system.

If you do not want to store the attachments that the component supplier sends from SAP Business Network, use the `BAdI_ARBCIG_BADI_ATTACHMENT_UTIL` that SAP Ariba provides to customize accordingly.

Note

You can use the `BAdI` to delete or overwrite the attachments stored on the SAP ERP system. For more information on attachments, see [Supporting Attachments and Comments in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), you can enable quality inspection request (`QualityInspectionRequest` or `QualityInspectionDecisionMsg`) integration for a specific set of suppliers and company code combination.

You can maintain these specific vendors in the **Activate Additional Outbound Messages for Specific Vendors** table (the `ARBCIG_OB_VENDOR` database table) in the **Maintain Vendor for the Outbound Transaction** node in SPRO.

In the **Activate Additional Outbound Messages for Specific Vendors** table, you can maintain only a subset of the vendors that you have maintained in the **SAP Business Network Vendor Table** (the `BN_VENDOR` table).

Note

If you have not maintained any vendors in the **Activate Additional Outbound Messages for Specific Vendors** table, the quality inspection request transaction is integrated with SAP Business Network for all the suppliers in the **SAP Business Network Vendor Table** table.

For more information, refer to [Maintaining Specific Vendors and Company Codes as Recipients of Transactions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

[Prerequisites \[page 229\]](#)

[Restrictions \[page 230\]](#)

[Supporting Quality Inspection of Goods in SAP Business Network for Supply Chain for Buyers \[page 231\]](#)

Prerequisites

You require the following for sending information about the quality inspection:

SAP ERP

- Setup the material master on your SAP ERP or SAP S/4HANA system to use the quality management view for your procurement data. You must enable the following options for the material items you use in your purchase order and require a quality check through the quality inspection integration with SAP Business Network:
 - **QM proc. Active**
 - **QM Control Key**
 - **Certificate type**
 - **Insp. with task list**

Ensure that you configure the **Inspection setup** and configure the **Inspection Type** value for the **Inspection Lot Origin** as 01 for goods receipt inspection against a purchase order. You can create an inspection lot with inspection type 01 only if the material item has 01 defined as the **Inspection Type**. While setting up the inspection type, ensure that you check the **Automatic assignment** field in the Detailed information on inspection type section.

- Ensure that you configure the following for quality inspection:
 - Specify the Characteristic Control Indicators for your material items. You can specify a Master Inspection Characteristic for a Plant with the necessary Characteristic Control Indicators.
 - Define the sampling procedure conditions for the material items. You can specify the sampling type, sampling scheme, and other indicators that you require for the material items.
 - Ensure that you specify a work center for a plant using transaction code IR01. The work center allows you to define the location for the quality inspection.
 - Specify a sampling procedure to calculate the sample size for inspection.
- Verify that the inspection plan you use for quality inspection includes the following:
 - Material to inspect
 - Range of specifications available for inspecting the master inspection characteristics of the material item. For example, to inspect the characteristics, work center, and specifications. SAP Ariba only supports the following:
 - Qualitative characteristic that includes the code list (**Selected Set**) or does not include the code list (**Selected Set**)
 - Quantitative characteristic with the Summarized and Single recording

ⓘ Note

If you have only one task in the inspection plan, the SAP ERP system automatically assigns this task list to the automatic inspection lot request created at the time of posting goods receipt. If you have more than one task in the Inspection plan, you must manually assign the task list using transaction code QA02.

- Ensure that you maintain the quality info record to determine the vendor relationship for the material item and using transaction code QI01. This allows you to block the material for procurement from a specific supplier when the quality of the material does not meet the standard requirement. You must create the quality info record before you create a purchase order that is used for quality inspection. SAP ERP uses the purchase order having a reference to the quality info record when creating a quality inspection request for a supplier.

- Maintain the vendors to send the quality inspection documents to SAP Business Network in the SAP Business Network Vendor table. Ensure that you maintain the relationship for the vendor with the company code for SAP Business Network.
- Maintain the parameter CSC_ENABLED for SAP Business Network for Supply Chain.
- Set up the event linkages for the CREATED and CHANGED events for the quality inspection request. You also need to set up the event linkage for the usage decision for the quality inspection.
- Configure to send and receive quality inspection documents on the Configure the Connections to Send Messages page.
- To customize quality inspection, implement the BAdI ARBCIG_QUALITY_INSPECTION.
- Implement the BAdI QE_SAVE to send the reviewed status (Accepted or Rejected) for the characteristics of the material item to suppliers on SAP Business Network.

SAP Business Network

- Configure your SAP Business Network account for SAP Business Network for Supply Chain integration for buyers and suppliers. Ensure that you have the necessary roles and permissions for quality inspection.
- Ensure that you also set up to configure the alternate cXML document routing for quality inspection. To configure it, contact SAP Ariba Support.
- (Optional) Configure your document routing for the inbound document type QualityInspectionRequest in the Business End Points section on your SAP Business Network buyer account. This is required only when you use more than one SAP Ariba solution that requires more than one end point to be configured. Configure the document routing to route the QualityInspectionResultRequest from SAP Business Network to SAP Integration Suite, managed gateway for spend management and SAP Business Network.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- If you want to maintain the cross references for quality inspection, SAP Ariba requires the following document types in the **Cross References** page on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal:
 - QualityInspectionRequest
 - QualityInspectionResultRequest
 - QualityInspectionDecisionRequest

Restrictions

- SAP Ariba only supports the inspection lot with the **Inspection Type** 01 for goods receipt.
- SAP ERP does not send the QualityInspectionRequest SAP Business Network when a buyer blocks or cancels an inspection lot.
- Buyers cannot send the “**No characteristic recording (No charac. Rec.)**” option as a Quantitative characteristic control indicator for a material item.

- Buyers can only include less than or equal to 10 single results for a characteristic specification that SAP Business Network supports.
- Buyers can support only one operation in a task list for an inspection plan. SAP Business Network does not support more than one operation in a task list.
- Buyers cannot change the size of the inspection lot or reset the sampling size after sending the quality inspection to the supplier.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support sending the following information to SAP Business Network in the `QualityInspectionRequest` document:
 - Defect recording characteristic control indicators
 - Document number of the goods receipt

Supporting Quality Inspection of Goods in SAP Business Network for Supply Chain for Buyers

The buyer sends a `QualityInspectionRequest` requesting the supplier to inspect the quality of goods by the following methods:

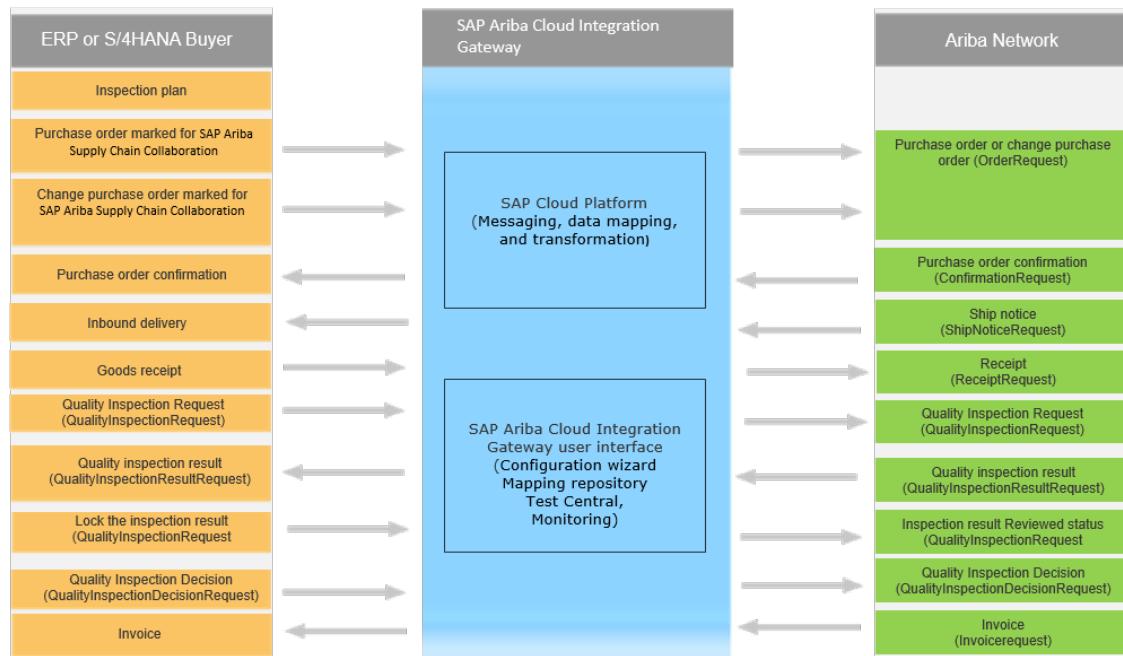
- Automatically send the inspection request from the SAP ERP system after sending the goods receipt to the supplier
- Manually sending the inspection request after receiving the order confirmation for the material items from the supplier. You can create an inspection lot manually only for the `Inspection Type` value for the `Inspection Lot Origin` 01 (goods receipt inspection against a purchase order).

ⓘ Note

- Buyers can run the program `ARBCIG_RESEND_QINSP_REQ_CRTD` to send the quality inspection requests that failed on SAP Business Network.
- When the inspection quality plan contains multiple task lists, SAP Ariba only supports one task list when creating an inspection lot automatically. The SAP ERP system automatically assigns this task list while creating the inspection request. If you have more than one task in the Inspection plan, you must manually assign the task list using transaction code QA02.

Automatically send the request for quality inspection

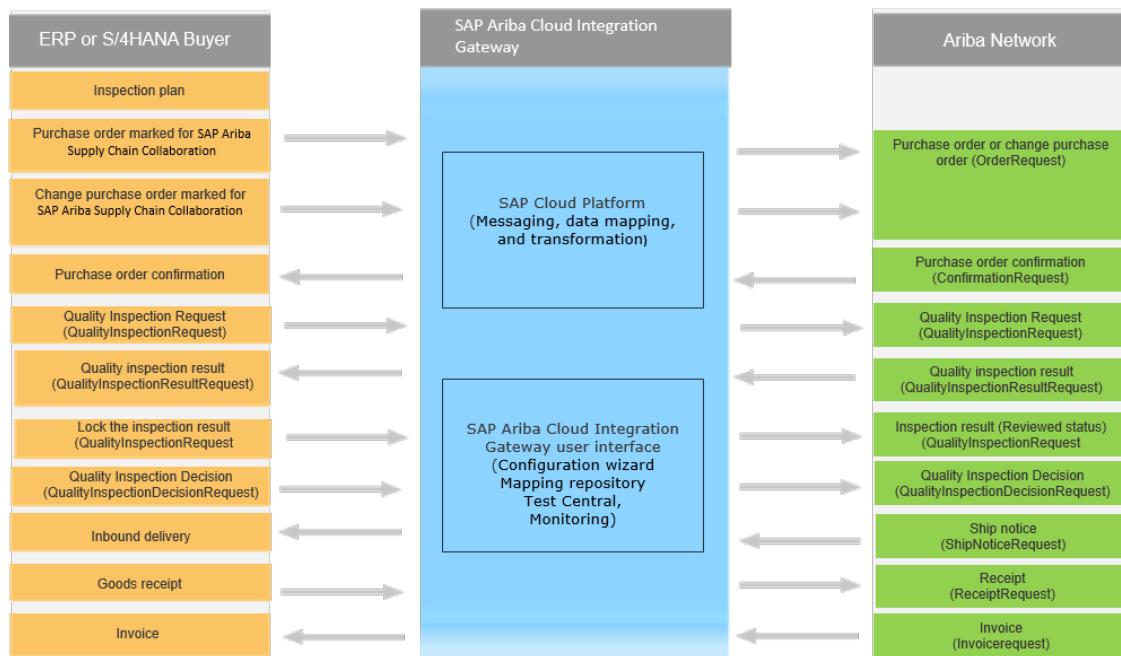
SAP Ariba Supply Chain Collaboration - Quality Inspection created automatically



1. The buyer creates an inspection plan and specifies the characteristics for the material items.
2. The buyer sends the purchase order to the supplier.
3. The supplier confirms the purchase order and sends the order confirmation to the buyer.
4. The supplier sends the ship notice to the buyer. The buyer creates the Inbound delivery document on the SAP ERP system.
5. The buyer sends the goods receipt to the supplier. SAP ERP system automatically creates an inspection lot for a specific quantity of material items and sends the quality inspection request (`QualityInspectionRequest` cXML message) to the supplier.
6. The supplier inspects the material items for the inspection lot and its characteristics on SAP Business Network and sends the inspection results (`QualityInspectionResultRequest` cXML message) to the buyer. The inspection result contains details for the inspection lot and the associated characteristics. The supplier may also send the certificate of analysis (CoA) and digital signature details (attachment and URL) with the inspection result.
7. The buyer reviews the results for the characteristics for the material items sent by the supplier. The buyer can then close the characteristics for the material item. This prevents suppliers from making any further changes.
8. The buyer sends the final decision (`QualityInspectionDecisionRequest` cXML message) whether the goods in the inspection lot have been accepted or rejected to the suppliers. If you have configured your SAP ERP system, you can also send quality notifications to the supplier informing them of quality-related issues in components or finished goods.
9. The supplier sends an invoice to the buyer.

Manually send the request for quality inspection

SAP Ariba Supply Chain Collaboration - Quality Inspection created manually



1. The buyer creates an inspection plan and specifies the characteristics for the material items.
2. The buyer sends the purchase order to the supplier.
3. The supplier confirms the purchase order and sends the order confirmation to the buyer.
4. The buyer creates an inspection lot and sends the quality inspection request (QualityInspectionRequest cXML message) to the suppliers.
5. The supplier inspects the material items for the inspection lot and its characteristics on SAP Business Network and sends the inspection results (QualityInspectionResultRequest cXML message) to the buyer. The inspection result contains details for the inspection lot and the associated characteristics. The supplier may also send the certificate of analysis (CoA) and digital signature details (attachment and URL) with the inspection result.
6. The buyer reviews the results for the characteristics for the material items sent by the supplier. The buyer can then close the characteristics for the material item. This prevents suppliers from making any further changes.
7. The buyer sends the final decision (QualityInspectionDecisionRequest cXML message) for the inspection lot to the suppliers. If you have configured your SAP ERP system, you can also send quality notifications to the supplier informing them of quality-related issues in components or finished goods.
8. The supplier sends the ship notice to the buyer. The buyer creates the Inbound delivery document on the SAP ERP system.
9. The buyer sends the goods receipt to the supplier.
10. The supplier sends an invoice to the buyer.

Quality Notification

Buyers enabled for SAP Business Network for Supply Chain can send notifications to suppliers registered on SAP Business Network informing them of quality-related issues in components or finished goods. Suppliers can

also inform buyers of problems relating to goods and services and respond to the quality issues raised by the buyer. This ensures that buyers and suppliers have a real time end-to-end visibility throughout the order fulfillment process.

The quality notification collaboration allows:

- Suppliers maintain their quality standards when meeting the supply demands of buyers
- Buyers and suppliers record and process internal and external issues due to inferior quality of goods or services

For example, when a buyer receives a component or finished product that has not met their quality standard, the buyer can let their supplier on SAP Business Network immediately know of the sub-standard component or defective finished product received. This is very useful when a buyer has a scheduled quantity of components or finished products at periodic time intervals. The notification alerts suppliers of the poor quality of components or finished products early on before they send subsequent batches of the required components or finished products to the buyer.

Buyers and suppliers can send and receive quality notifications to address the following issues:

- Defect analysis
- Complaint against buyers
- Deviation reported by supplier
- Complaint against suppliers

The quality notification also supports attachments. The buyers can add an attachment to a quality notification and send it to the supplier on SAP Business Network. The suppliers can also add additional attachments without overwriting the available attachments on the quality notification before sending the quality notification back to the buyer's SAP ERP. The quality notification also supports attachments. The buyers can add an attachment to a quality notification and send it to the supplier on SAP Business Network. The suppliers can also add additional attachments without overwriting the available attachments on the quality notification before sending the quality notification back to the buyer's SAP ERP.

SAP ERP buyers use the master data report to download the quality notification codes from their SAP ERP system and upload them on SAP Business Network. Buyers on SAP Business Network set up and maintain the quality notification codes in their SAP Business Network account. Before a buyer can send or receive a quality notification, suppliers must also set up and configure their SAP Business Network account to send or receive the quality notifications.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_September 2019, buyers and suppliers can integrate customized quality notification types, along with the standard quality notification types, with SAP Business Network and SAP Business Network for Supply Chain using SAP Integration Suite, managed gateway for spend management and SAP Business Network. They can define the customized quality notification types in SAP ERP or SAP S/4HANA or use other standard notification types apart from Q6 and Q7 and integrate them. After the integration, the buyers and suppliers can use customized quality notification types to send buyer-initiated and supplier-initiated quality notifications using customized notification types.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2011 (Q4 2020), the following enhancements are integrated to the support for quality notifications:

- Supports a new method - user-triggered action - to send quality notification from SAP ERP or SAP S/4HANA to SAP Business Network.

- Supports the configuration for not sending the quality notification from SAP ERP or SAP S/4HANA to SAP Business Network based on the system status or user status. The users can filter the quality notifications based on status and prevent the quality notifications from sending to SAP Business Network.
- Supports the configuration to enable the buyers for identifying tasks and activities as internal. The internal tasks and activities are not sent from SAP ERP or SAP S/4HANA to SAP Business Network along with quality notifications. The code groups and/or code for the internal tasks and activities are also not sent as quality notification master data from SAP ERP or SAP S/4HANA to SAP Business Network.
- Supports the integration of quality notifications that do not refer to any material master data from SAP ERP or SAP S/4HANA to SAP Business Network and vice versa.
- Supports the integration of serial numbers in the header of the quality notifications from SAP ERP or SAP S/4HANA to SAP Business Network and vice versa.
- Supports the integration of item material and item batch from SAP ERP or SAP S/4HANA to SAP Business Network and vice versa.

Note

If you edit an inbound quality notification to add a line item and associate that line item with a batch, the quality notification is triggered from SAP ERP or SAP S/4HANA without the batch. To send the batch to SAP Business Network, you need to resend the modified quality notification using the transaction code ARBCIG_QLTY_NOITF.

You can resend quality notification from SAP ERP or SAP S/4HANA to SAP Business Network whenever you want to do so. You can resend a quality notification that is failed in SAP Integration Suite, managed gateway for spend management and SAP Business Network on its way to SAP Business Network or send a modified quality notification that is not automatically sent to SAP Business Network. You can also use this feature to send a quality notification to SAP Business Network after adding an attachment to it in the display mode. This feature provides you with more control in triggering quality notifications from SAP ERP or SAP S/4HANA to SAP Business Network. To resend a quality notification or send a modified quality notification to SAP Business Network you can use the program, ARBCIG_RESEND_QUALITY_NOTIF. For more information, refer to [Resending Quality Notification from SAP ERP or SAP S/4HANA to SAP Business Network in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

You can filter certain quality notifications and prevent sending them from SAP ERP or SAP S/4HANA to SAP Business Network. You can filter the quality notifications based on their system and user status. To do this, you must configure the QN_STAT_FILTER parameter. For example, you can use the system status, I0525 to filter the quality notifications that require approval and prevent them from sending to SAP Business Network. The TJ02T table lists all the system status that you can use to filter the quality notifications. Similarly, you can use the user status, E0003 to filter the quality notifications that are released for processing prevent them from sending to SAP Business Network. The TJ30 table lists all the user status that you can use to filter the quality notifications. For more information, refer to [Maintaining Parameters for Quality Notifications in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

As a buyer, you do not want to send internal tasks or activities in the quality notification to the supplier on SAP Business Network. For example, if you have an internal task, **Correction in procurement** that you don't want to send to the supplier along with the quality notification, you can do so by maintaining such internal tasks and activities in the **Maintain Internal Task/Activity for Quality Notification** table. In this table, you can use the catalog 2 for the tasks and catalog 8 for the activities. You can also mention the code groups and the code for the internal task and/or activity to not send as quality notification master data to SAP Business Network. For more information, refer to [Maintaining Internal Tasks and Activities in Quality Notifications in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

You can use the ARBCIG_QN_FILTER BAdl to disable the quality notification filters based on the system and user status and the internal tasks and activities. You can use this BAdl to avoid applying the filters configured using the QN_STAT_FILTER parameter on some of the existing quality notifications. You can implement the logic in this BAdl to override the QN_STAT_FILTER filter for the quality notifications that are created based on certain criteria such as quality notification type, or date of creation, and so on. For more information, refer to [Implementing BAdl for Disabling Quality Notification Filters in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

The XSLT mapping in SAP Integration Suite, managed gateway for spend management and SAP Business Network has been enhanced to do the following:

- Integrate the quality notification that does not refer to a material in the **Reference Objects** tab of the header. Now, you can receive updated quality notifications not referring to material from the supplier in SAP Business Network. The suppliers in SAP Business Network can also create a quality notification not referring to material and send it to the buyer's SAP ERP or SAP S/4HANA.
- Integrate the quality notification that refers to a serial number in the **Reference Objects** tab of the header. Now, you can send quality notifications on individual instances of a serialized material to the supplier in SAP Business Network. The suppliers can also send quality notifications on individual instances of a serialized material to the buyer's SAP ERP or SAP S/4HANA.
- Integrate the quality notification for the item materials that the buyers maintain in the **Assembly** field of the items at the item level.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2011 (Q4 2020), the following additional improvements are also implemented:

Current Behavior	Improved Functionality
Modified quality notifications from SAP Business Network overwrites the reference object fields on the header of the quality notification in SAP ERP or SAP S/4HANA.	<p>Buyers can create a quality notification with many references in SAP ERP or SAP S/4HANA. However, these references, except PO Number and Delivery, are not sent to SAP Business Network.</p> <p>When the supplier modifies the quality notification and sends it back to the buyer's SAP ERP, both SAP and Ariba fields in the header structure of the buyer's quality notification is replaced by the header structure of the supplier's quality notification.</p> <p>The code has been corrected to map only the Ariba fields from the supplier's quality notification without impacting the SAP information on the buyer's quality notification.</p>
The header text that the supplier modifies in SAP Business Network is not displayed in the quality notification in the buyer's SAP ERP or SAP S/4HANA	<p>The pre-processing method of the ARBCIG_QUALITY_NOTIFICATION BAdl does not contain the parameter to carry the header text modified in SAP Business Network to the buyer's SAP ERP or SAP S/4HANA.</p> <p>A new parameter, C_LONGTEXTS_HDR has been added to the pre-processing method of the ARBCIG_QUALITY_NOTIFICATION BAdl. This parameter carries the modified header text of the quality notification from SAP Business Network to SAP ERP or SAP S/4HANA.</p>

Current Behavior	Improved Functionality
No event is available for creating a quality notification in SAP ERP or SAP S/4HANA and releasing it at the same time.	<p>You can configure the following new event linkages based on the approval flow configured in the system:</p> <ul style="list-style-type: none"> The INPROCESS event type linkage for creating and sending a new quality notification to SAP Business Network The APPROVED event for creating a quality notification in SAP ERP or SAP S/4HANA.
	<p>For more information, refer to Maintaining the Event Linkages for Quality Notifications in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide.</p>
Enabling quality notification integration for a specific set of suppliers and company code combination is not supported.	<p>You can enable quality notification integration for a specific set of suppliers and company code combination. In SPRO</p> <p>You can maintain these specific vendors in the Activate Additional Outbound Messages for Specific Vendors table (the ARBCIG_OB_VENDOR database table) in the Maintain Vendor for the Outbound Transaction node in SPRO.</p>
	<p>In the Activate Additional Outbound Messages for Specific Vendors table, you can maintain only a subset of the vendors that you have maintained in the SAP Business Network Vendor Table (the BN_VENDOR table).</p>
<p> Note</p> <p>If you have not maintained any vendors in the Activate Additional Outbound Messages for Specific Vendors table, the quality notification is integrated with SAP Business Network for all the suppliers in the SAP Business Network Vendor Table table.</p>	<p>For more information, refer to Maintaining Specific Vendors and Company Codes as Recipients of Transactions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide.</p>
<p>You can run the ARBCIG_BN_VENDOR_UPL transaction code to upload the suppliers to the Activate Additional Outbound Messages for Specific Vendors database table in the .csv format.</p>	<p>For more information, refer to Uploading Supplier Records to the Activate Additional Outbound Messages for Specific Vendors Table in the .csv Format in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide.</p>

Current Behavior	Improved Functionality										
In some cases, the task status of the inbound quality notifications is incorrectly updated in SAP ERP or SAP S/4HANA. For example, the task status of a quality notification in SAP Business Network is Inprocess , but when the quality notification is received in SAP ERP or SAP S/4HANA, the task status is displayed as TSOS , which indicates the status new in SAP Business Network.	The code has been corrected to display the correct task status in SAP ERP or SAP S/4HANA. The following table displays the task status in SAP Business Network and the corresponding task status in SAP ERP or SAP S/4HANA:										
	<table border="1"> <thead> <tr> <th>Task Status in SAP Business Network</th><th>Task Status in SAP ERP or SAP S/4HANA</th></tr> </thead> <tbody> <tr> <td>New</td><td>TSOS</td></tr> <tr> <td>Inprocess</td><td>TSRL</td></tr> <tr> <td>Complete</td><td>TSRL</td></tr> <tr> <td>Close</td><td>TSCO</td></tr> </tbody> </table>	Task Status in SAP Business Network	Task Status in SAP ERP or SAP S/4HANA	New	TSOS	Inprocess	TSRL	Complete	TSRL	Close	TSCO
Task Status in SAP Business Network	Task Status in SAP ERP or SAP S/4HANA										
New	TSOS										
Inprocess	TSRL										
Complete	TSRL										
Close	TSCO										
Standardizing the date and time fields in the outbound and the inbound quality notifications	<p>For the outbound quality notifications, logic has been added in the cXML to accept the time for the date and time fields from the timezone of the user who created the quality notification, which is stored in the quality notification header table, and allow BN to display this time to the suppliers.</p> <p>For the inbound quality notifications, the date and the time of the buyer's plant is displayed. If the plant's time zone is not available, the buyer's interface time zone is considered. To enable the plant's time zone conversion, you must maintain the <code>USE_PLANT_TIMEZONE</code> parameter.</p> <p>Note Only the manually changeable fields listed in the SAP Note 636992 accept the date and the time fields from the plant-specific time maintained by the <code>USE_PLANT_TIMEZONE</code> parameter</p> <p>The code has been enhanced to standardize the date and time fields in the outbound and the inbound quality notification.</p>										
Outbound quality notifications containing certain specific fields fail in SAP Integration Suite, managed gateway for spend management and SAP Business Network	The XSLT code has been corrected to avoid the failure of the outbound quality notifications containing fields <code>SALES_ORDER_REFERENCE</code> , <code>OUTBOUND_DELIVERY_REFERENCE</code> , and <code>PRODUCTION_ORDER_REFERENCE</code> in SAP Integration Suite, managed gateway for spend management and SAP Business Network.										

Current Behavior	Improved Functionality
<p>When the types for the outbound and the inbound quality notifications are the same, the quality notification master data extraction program fails to extract the associated quality code groups and quality code from SAP ERP or SAP S/4HANA.</p>	<p>On the Export All Master Data Required for Quality Notification page, you can specify whether you want to use the same quality notification type for the outbound and the inbound quality notifications.</p> <p>For more information, refer to Importing Master Data for Quality Notifications in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide.</p>
<p>Modified quality notifications are sent from SAP ERP or SAP S/4HANA to SAP Business Network. Buyers cannot prevent sending them to SAP Business Network.</p>	<p>The buyers can configure the parameter, QN_DISABLED to prevent sending modified quality notifications from SAP ERP or SAP S/4HANA to SAP Business Network that are otherwise automatically triggered. This gives more control to the buyers in managing quality notifications.</p> <p>For more information, refer to Maintaining Parameters for Quality Notifications in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide.</p>
<p>When the suppliers update the long text in the header or the item level of the quality notifications and send them to SAP ERP or SAP S/4HANA, the long text in the quality notification in SAP ERP or SAP S/4HANA appears repeated.</p>	<p>The quality notification from SAP Business Network contains the complete long text including the one sent from SAP ERP or SAP S/4HANA. This complete long text appends to the original long text available in the quality notification in SAP ERP or SAP S/4HANA resulting in the duplication of long text. To address this problem, the code has been modified to replace the original long text in the quality notification in SAP ERP or SAP S/4HANA with the long text in the inbound quality notification.</p>

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2211 (Q4 2022), you can view all descriptions in quality notifications maintained at various levels on quality notifications like the header, item, task, activity, defects, cause, and so on and send between the ERP system and SAP Business Network in full and without any repetition. The published descriptions are displayed as blocks of text. SAP Integration Suite, managed gateway for spend management and SAP Business Network integrates the latest text by appending it to the bottom of the existing set of descriptions.

SAP Integration Suite, managed gateway for spend management and SAP Business Network maps the <QNNotes> field that is available in cXML. The integration using the mapping of the <QNNotes> field also addresses the unnecessary repetition of the content formatted as Long Text.

ⓘ Note

These enhancements are supported for the cXML versions 54 and later.

With the mapping of the <QNNotes> element in the header section of quality notifications, the URLs that are sent from the suppliers in SAP Business Network to the buyer's SAP ERP or SAP S/4HANA are also integrated. These URLs appear as attachments in the buyer's SAP ERP or SAP S/4HANA. As a buyer, you can click and access these URLs.

SAP Integration Suite, managed gateway for spend management and SAP Business Network also enables buyers to integrate the Return Merchandise Authorization (RMA) number on the quality notifications with the buyer's SAP ERP or SAP S/4HANA. This integration helps you implement the RMA process in your company and consume the RMA number for return process based on their business process.

For more information on quality notifications for SAP Business Network suppliers using SAP Business Network for Supply Chain, see the following guides:

- [Supplier Guide to SAP Business Network for Supply Chain](#)
 - [SAP Business Network for Supply Chain Integration and Configuration Guide](#)
- [Prerequisites and Restrictions \[page 240\]](#)

Prerequisites and Restrictions

To send and receive quality notifications from buyers and suppliers enabled for SAP Business Network for Supply Chain, you require the following:

- Ensure that your Software Component Version is SAP APPL 604 or higher.
- Based on the Software Component Version, you also need to install the corresponding ESR (Enterprise Service Repository) content from SAP Market Place.
- Buyers and suppliers must configure the necessary rules to send and receive quality notifications from the SAP Business Network accounts.
- Set up quality notifications on your SAP ERP system to send and receive quality notifications from SAP Business Network.
- Run the program ARBCIG_QN_MASTER_DATA_EXTRACT to download the master data report with the quality notification codes from the SAP ERP system. The master data report containing the quality notification codes is in a .csv format.
- Add the Q6 and Q7 quality notification code types to the quality notification codes in the .csv file.
- In the SAP Business Network buyer account, upload the .csv file containing the quality notification codes and code groups.
- Configure to create and activate the event type linkages to send quality notifications.
- If you are a new or existing customer and are using the software components for SAP Integration Suite, managed gateway for spend management and SAP Business Network version ARBCI1 100 SP002 or ARBCI1 10S SP 002, ensure that you apply the SAP Note 2689793.
- To support the integration of custom quality notification types:
 - Ensure that the feature to add the default system ID to quality notifications without enabling multi-ERP has been enabled on SAP Business Network.
 - Ensure that the custom quality notifications, along with Q6 and Q7 quality notification code types, are added to the quality notification codes in the .csv file. In the SAP Business Network buyer account, upload the .csv file containing the quality notification codes and code groups.
- You must activate the business function, OPS_QM_Extension for supporting batches at the item level.
- Ensure to enable the following features on SAP Business Network:
 - Support for the new user interface for quality notifications
 - Support for hyperlinks in quality notifications
 - Support for multiple descriptions in quality notification sections

- Ensure to enable the General long text formatting/No text changes flag in the SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on for the quality notification long text.

Restrictions

- SAP Ariba recommends that you maintain the **Supplier Deviation Number** containing numerals, alphabets, or a combination of alphabets and numbers in capital letters. SAP ERP stores the alphabets for the **Supplier Deviation Number** only in capital letters. When you maintain the **Supplier Deviation Number** containing alphabets in lower case, SAP ERP stores the alphabets in capital letters and SAP Business Network stores the alphabets in lower case. This results in errors while processing the quality notifications in SAP ERP and SAP Business Network.
- SAP Business Network allows suppliers to update the existing Task status code or add a new Task status code on SAP Business Network. However, when the quality notification containing an updated or newly added Task status code is sent to SAP ERP, SAP ERP does not update the Task status code text against the existing task code or create the new Task status code text on the SAP ERP system, if you are using SAP EHP3 for SAP ERP 6.0 and lower (SAP_APPL_603) and lower. SAP EHP4 for SAP ERP 6.0 (SAP_APPL_604 SP12) and higher version only support updating the Task status code text against the existing task code or creating a new task status code that an SAP Business Network supplier sends to the SAP ERP system.
- A material at the item level can support only a single batch. You can have multiple items with each item containing a single batch. You cannot have multiple batches for a single item because of cXML restrictions even though SAP supports multiple batches for a single item in quality notification transactions.
- If you edit an inbound quality notification to add a line item and associate that line item with a batch, the quality notification is triggered from SAP ERP or SAP S/4HANA without the batch. To send the batch to SAP Business Network, you need to resend the modified quality notification using the transaction code ARBCIG_QLTY_NOITF.
- The removal of attachments in a quality notification is not supported in SAP Business Network. Because of this restriction, the quality notification that is updated in SAP Business Network and send back to the buyer's SAP ERP or SAP S/4HANA display the attachments that you have originally removed in SAP ERP or SAP S/4HANA.

SAP Business Network

- SAP Business Network supports approved registered domains only.

Material Product Hierarchy Mapping in SAP ERP or SAP S/4HANA for Product Activity Message, Purchase Orders, Scheduling Agreements, and Scheduling Agreement Releases to Material Classification in SAP Business Network

In SAP ERP or SAP S/4HANA that supports the classification of materials using product hierarchies, buyers can use product hierarchies to group materials for analyses and pricing. In SAP Business Network, you can use material classification to group the materials. SAP Integration Suite, managed gateway for spend management and SAP

Business Network provides a configuration option for the buyers on SAP ERP and SAP S/4HANA to map product hierarchy levels defined in SAP ERP or SAP S/4HANA to the material classification in SAP Business Network. This mapping helps us do the following:

- Send the material product hierarchy maintained in SAP ERP or SAP S/4HANA to SAP Business Network and map it to the material classifications in SAP Business Network.
- Search and analyze SAP Business Network documents based on the material classification.

The mapping of material product hierarchy in SAP ERP or SAP S/4HANA to material classification in SAP Business Network is supported for forecast planning data, supplier managed inventory, purchase orders, scheduling agreements, and scheduling agreement releases.

Note

For forecast planning data and supplier managed inventory, the product hierarchy information is extracted from SAP ERP or SAP S/4HANA and included in the product activity message.

In SAP ERP or SAP S/4HANA, you can create up to three product hierarchy levels. Each level stands for a specific characteristic of the product. Each level is represented by a specific number of alphanumeric characters. A total of 18 alphanumeric characters can represent the product hierarchy levels. If you want to configure additional levels of product hierarchy, you can configure up to nine levels and define the number of characters to determine each level of the hierarchy. You must define these levels using a maximum of 18 alphanumeric characters.

SAP Business Network supports material classification using the following classification values:

- Line of business
- Product family
- Product sub-family
- Part category
- Part type
- Internal program code
- External program code

After this integration, you can map the product hierarchy level to these material classification values.

SAP Business Network supports only seven levels of material classification. So, you can only map a maximum of seven product hierarchy levels to SAP Business Network material classification values.

You can use the **Map Material Product Hierarchy to Material Classification** node to map the material product hierarchy in SAP ERP or SAP S/4HANA to material classification in SAP Business Network. In this configuration, you can maintain the number of levels of product hierarchy that you want to map to the material classification fields in SAP Business Network and the material classification fields to which each product hierarchy level should be mapped. After this mapping, the product hierarchy values are included in the product activity message (for forecast planning data and supplier managed inventory flows), purchase orders, scheduling agreements, and scheduling agreement releases.

Note

In the **Map Material Product Hierarchy to Material Classification** node, the material classifications in SAP Business Network are displayed only in English. This is because the SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on is available only in English.

The following table summarizes the outcome of the mapping of product hierarchy levels to material classification fields in SAP Business Network:

Mapping	Outcome
Materials for which the product hierarchy level is not assigned in SAP ERP or SAP S/4HANA	The product activity message for the forecast planning data and supplier managed inventory does not contain the product hierarchy values.
Product hierarchy configuration is maintained in SAP ERP at ► Logistics General ► Material Master ► Settings for Key Fields ► Data Relevant to Sales and Distribution ► Define Product Hierarchies . However, at the node ► Integration with Other SAP Components ► Managed Gateway for Spend&Network for Buyer ► SAP Business Network Integration ► Map Material Product Hierarchy to Material Classification , only certain product hierarchy levels are mapped to the material classification fields in SAP Business Network. The mapped product hierarchy levels are assigned to specific material classification fields in SAP Business Network.	The product activity message for the forecast planning data and supplier managed inventory contains the descriptions of the product hierarchy levels mapped to the material classification fields in SAP Business Network.
Product hierarchy configuration is maintained in SAP ERP at ► Logistics General ► Material Master ► Settings for Key Fields ► Data Relevant to Sales and Distribution ► Define Product Hierarchies . At the node ► Integration with Other SAP Components ► Managed Gateway for Spend&Network for Buyer ► SAP Business Network Integration ► Map Material Product Hierarchy to Material Classification , all these product hierarchy levels are mapped to specific material classification fields in SAP Business Network.	The product activity message for the forecast planning data and supplier managed inventory contains the descriptions of all the product hierarchy levels mapped to the material classification fields.
Materials are assigned product hierarchy levels in Material Master. However, no mapping is configured in the Map Material Product Hierarchy to Material Classification node.	The product activity message for the forecast planning data and supplier managed inventory does not contain the product hierarchy values.

ⓘ Note

Maintaining a product hierarchy for the material is optional.

Additionally, the buyers can integrate the following material group information and manufacturer part information from SAP ERP or SAP S/4HANA to the material classification and item details in SAP Business Network for supplier managed inventory and forecast planning data through product activity message transaction:

- **Material Group** in SAP ERP or SAP S/4HANA to the material classification with the domain, `ERPCommodityCode` in SAP Business Network.
- **EAN/UPC (International Article Number)** in SAP ERP or SAP S/4HANA to the material classification with the domain, `EAN-13` in SAP Business Network.
- **Manufacturer Part** in SAP ERP or SAP S/4HANA to `ManufacturerPartID` in the item details in SAP Business Network.
- **Manufacturer** in SAP ERP or SAP S/4HANA to `ManufacturerName` in the item details in SAP Business Network.

The buyers can also integrate **Material Group Description** in SAP ERP or SAP S/4HANA to the material classification with the domain, `ERPCommodityCodeDescription` in SAP Business Network for the product activity message, purchase order, product replenishment order, scheduling agreement, and the scheduling agreement release transactions. The material group description is displayed in the same language that is maintained as the vendor communication language.

The following changes are made to support this integration:

- Enhanced the `OrderRequest` and the `ProductActivityMessage` message types to include `ProductHierarchy`.
- The outbound proxy, Product Activity Message (with the technical name, `ProductActivityMessage_Async_Out`) has been modified to include the new fields for the following:
 - Material Group
 - Material Group Description
 - EAN_UPC_Number
 - Manufacturer Part
 - Manufacturer
- The structure, `ARBCIG_MARA_MEIN_S` has been modified to include the new field, `EAN11` for supporting the international article number.
- Added `E1ARBCIG_PROD_HIER` with the `HIERARCHY`, and the `LEVEL` fields in the following segments to enhance the `ARBCIG_ORDERS` (for purchase orders) and the `ARBCIG_DELINS` (for scheduling agreements, and scheduling agreement releases) IDocs:
 - The `E1EDP01` segment for enhancing the `ARBCIG_ORDERS` IDoc.
 - The `E1EDP10` segment for enhancing the `ARBCIG_DELINS` IDoc.
- The IDOC segment, `E1ARBCIG_PO_ITEMS_INFO` of `ARBCIG_ORDERS` has been modified for supporting the material group description and the manufacturer name information.
- The IDOC segment, `E1ARBCIG_SARDETAIL` of `ARBCIG_DELINS` has been modified for supporting the material group description and the manufacturer name information.
- Modified the following XSLT files to handle hierarchy details at the `ItemOut` and the `ItemDetail` fields:
 - `AddOn_Order_cXML_OrderRequest.xsl`
 - `AddOn_ScheduleAgreementRelease_cXML_OrderRequest.xsl`
 - `AddOn_ProductActivityMessage_cXML_ProductActivityMessage`
- The following mapping are created:

Supported Transactions	Classification	Domain
Product activity message	<code>cXML/Header/Message/</code> <code>ProductActivityMessage/</code> <code>ProductActivityDetails/</code> <code>Classification</code>	<code>cXML/Header/Message/</code> <code>ProductActivityMessage/</code> <code>ProductActivityDetails/</code> <code>Classification/@domain</code>
Purchase order, scheduling agreements, and scheduling agreement releases	<code>/cXML/Request/</code> <code>OrderRequest/ItemOut/</code> <code>ItemDetail/Classification</code>	<code>/cXML/Request/</code> <code>OrderRequest/ItemOut/</code> <code>ItemDetail/Classification/</code> <code>@domain</code>

Prerequisites and Restrictions

Prerequisites

The following are the prerequisites for the integration to support mapping of material product hierarchy between SAP ERP or SAP S/4HANA and SAP Business Network:

- Ensure that the product hierarchies are configured in SAP ERP at Logistics General > Material Master > Settings for Key Fields > Data Relevant to Sales and Distribution > Define Product Hierarchies
- Ensure that the required materials are assigned to product hierarchy levels in Material Master.

Restrictions

The following are the restrictions for the integration to support mapping of material product hierarchy between SAP ERP or SAP S/4HANA and SAP Business Network:

- Only the product hierarchy that is maintained in basic data of material can be mapped to the material classification fields in SAP Business Network. This feature does not support the mapping of product hierarchy maintained in the sales organization level.
- The integration of multiple manufacturer parts for material with `ManufacturerPartID` in the item details in SAP Business Network is not supported.
The integration of multiple manufacturer parts for material with `ManufacturerPartID` in the item details in SAP Business Network is not supported.

Data Format Conversion in Outbound and Inbound Transactions

Buyers integrated with SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network can convert data formats in outbound and inbound transactions.

The feature supports conversion of values of the following outbound data originating in SAP ERP or S/4HANA to external format, which have conversion routine:

- Vendor or Supplier
- Material
- Item number
- Document Number
- G/L account
- Asset
- WBS Element
- Cost center
- Internal Order
- Address number

- Service Map Key
- Parent Service Map key
- Extrow

The feature also supports the conversion routine to convert the ISO unit of measurement (UOM) to commercial/internal UOM in the inbound transactions and commercial/internal UOM to ISO UOM in the outbound transactions.

Note

Existing SAP Business Suite add-on customers can use this feature when integrating with SAP Business Network using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Prerequisites and Restrictions

Prerequisites

Ensure that the following requirements are met:

- Installed the latest version of ARIBA CLOUD INT SAP ERP
- Configure the following three parameters to enable the conversion of data format:
 - ENABLE_EXTFORMAT_MASTERDATA
 - ENABLE_EXTFORMAT_SUPPLIER_ONLY
 - ENABLE_EXTFORMAT_ISO_UOM

Restrictions

- Following restriction applies only for unit of measurement (UOM):

If you have already integrated SAP Business Network with SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network, enabling the `ENABLE_EXTFORMAT_ISO_UOM` parameter will affect the following transactions and may lead to data inconsistency:

- Product activity message with unreplenished demand on the supplier side.
For example, consider a scenario where a buyer sends a product activity message to SAP Business Network in commercial/internal UOM to the supplier and then enables the `ENABLE_EXTFORMAT_ISO_UOM` parameter. If the buyer sends the product activity message again for the same time period, this may cause data inconsistencies where two demands are registered in SAP Business Network, one with ISO UOM and one with commercial/internal UOM. These inconsistencies must be evaluated and necessary adjustments must be made.
- Open quality notification document.
- Open quality inspection document and subsequent transactions.

Ensure that you consider the restrictions and make necessary adjustments.

For more information, see [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Serial Numbers in Subcontracting Components and Standard Items

[Support for Serial Numbers in Subcontracting Components and Standard Items \[page 247\]](#)

[Prerequisites and Restrictions \[page 248\]](#)

Support for Serial Numbers in Subcontracting Components and Standard Items

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 1.0_September 2019, buyers integrated with SAP Business Network, SAP Business Network for Supply Chain for Buyers, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send serial numbers for subcontracting components and standard items in the following transaction documents:

- Purchase order (standard purchase order and subcontracting purchase order)
- Component ship notice
- Receipt
- Component consumption
- Ship notice

ⓘ Note

- Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 2006, buyers can send the serial number information in the product activity messages. Suppliers can view the component inventory with the serial numbers from their SAP Business Network account.
- SAP ERP requires SAP ERP EhP 4 and higher to process serial numbers for in the purchase orders.

The integration to support serial numbers for subcontracting components and standard items helps buyers and suppliers to track the subcontracting components and standard items efficiently. Buyers and suppliers can use the serial number in the transaction documents to track the subcontracting components and standard items during the inventory, manufacturing, production, and shipping cycles.

Buyers configure their SAP ERP or SAP S/4HANA system to assign serial numbers for the subcontracting components and standard items. Buyers can assign a unique number, series, or a range of numbers to each material item. Assigning a serial number to a material item allows both buyers and suppliers to track each individual material item in any phase of the product life cycle. It is also useful in easily identifying a piece of material item based on its manufacturing origin, date of packing, replacement information, etc.

When buyers configure the material or component items to include serial number information, the subcontracting components and standard items in the purchase order contain the information. When suppliers view the purchase order or create a ship notice on SAP Business Network, the serial numbers are available in the **Asset Details** section in the purchase order and ship notice. Buyers and suppliers can view the serial numbers in the line item details section.

When buyers send the serial number information in the purchase orders, buyers and suppliers can download the report to view the serial number information available in purchase orders from the SAP Business Network account. Buyer and suppliers can choose the **Serial Number Report** available on the **Reports** tab to download the report containing serial numbers in purchase orders. Suppliers can also open the purchase order containing the serial

number for the line items and download the serial numbers available in the purchase order from the  **Details**  **Information on Ship Notice [Optional]**  section.

Buyers and suppliers can use the template that SAP Ariba provides to download and upload all the serial numbers from purchase orders and ship notices. The template is an easy reference to view all the serial numbers available in the purchase orders, without having to individually open them from the SAP Business Network account.

Prerequisites and Restrictions

Prerequisites

SAP ERP

- Configure the SAP ERP system for SAP Business Network for Supply Chain integration with SAP Business Network. Also ensure that you configure the necessary parameters to send purchase orders and process ship notices sent from SAP Business Network.
- Enable the Business Function, `LOG_MM_SERNO` on your SAP ERP system.
- Configure serial numbers using the transaction code, `SPRO` and then go to  **Materials Management**  **Purchasing** ). Ensure that you configure the serial number profile for Purchasing and assign the serial number usage for the materials. You can also specify the serial numbers for the material manually using the transaction code, `IQ04` and `IQ01`.
- Ensure that you save the outbound delivery before you create a Post Good Issue (PGI) on the SAP ERP system. SAP ERP does not save the serial numbers for the components until you save the outbound delivery. Click the **Create Post Good Issue** button only after you save the outbound delivery.
- Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 2006, buyers can enable the parameter `PRO_ACT_WAIT` to set the time for the standard BAdl, `MB_DOCUMENT_BADI`. For more information, see [Setting the Wait Time to Process Serial Numbers in the Product Activity Messages in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

If you are an existing customer that has already implemented the implicit enhancement, `ARBCIG_PACSNPGI_IMPL` for the BAdl, `MB_DOCUMENT_BADI`, ensure that you redo the implicit enhancement.

SAP Business Network

- Configure your SAP Business Network account for SAP Business Network for Supply Chain integration for buyers and suppliers. Ensure that you have the necessary roles, permissions, and rules to send ship notices to the SAP ERP system and receive purchase orders and other corresponding transaction documents from the SAP ERP system.
- Configure your SAP Business Network account to send and receive serial numbers in transaction documents. Ensure that you enable the necessary rules to send serial numbers in ship notices to the SAP ERP system and receive purchase orders with serial numbers from the SAP ERP system.
- When suppliers change the quantity for a line item in an existing ship notice on SAP Business Network, suppliers must ensure that the serial number for the edited quantity to the component item or standard item has also been changed (increase or decrease the serial number based on quantity).

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Ensure that you enable the necessary cross references for purchase orders and ship notices on SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Prerequisites for Component Information in Ship Notices \[page 189\]](#).

Restrictions

- SAP ERP does not support serial numbers specified as a 'range of serial numbers' or 'with a profile format for serial numbers.' Ensure that you maintain the serial numbers as a "list of serial number" in each of the transaction documents.
- SAP Ariba does not support serial numbers in the following transaction documents:
 - Scheduling agreement release
 - Order confirmation
 - Component receipt
 - Quality inspection, quality notifications, and other quality management-related document
- SAP ERP does not send the product activity messages in the following cases:
 - When buyers do not create a Post Goods Issue (PGI) against the component ship notice
 - When buyers directly do not post the material document using the movement type 561(O).
- When buyers send a copy of the receipt against the subcontracting purchase orders to the component manufacturing suppliers, the product activity messages do not have information about the serial numbers.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the serial numbers only in the consignment purchase orders, ship notices, and receipts created against the consignment purchase order.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support serial numbers in the product activity message containing stock-related information (supplier-managed inventory (SMI)) for consignment collaboration.
- When items are withdrawn from the consignment stock, the product activity message does not display the serial numbers for the withdrawn items.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the serial numbers for purchase orders that have an associated order configuration approval with the approval action, 'approveandupdatePO.' Customers can use the method, `pre_processing_po_upd` in the standard BAdl, `arbcig_order_confrmn_aprv1` to support serial numbers in the purchase orders that have an associated order confirmation approval.
- When buyers configure the serial numbers as a mandatory field for creating the outbound delivery document for subcontracting components, buyers must ensure that they do not use the transaction code ME2ON to create outbound delivery documents.
- SAP ERP does not support serial numbers for subcontracting components in the ship notices from SAP Business Network. When SAP ERP buyers want to include the component serial numbers that SAP Business Network sends, they must ensure that they enhance the Method, `PRE_PROCESSING` in the BAdl `ARBCIG_ADVANCE_SHIPMENT_NOTICE`.
- In the two-step movement with the movement type 30C, when the buyer receives the component receipt from the contract manufacturer suppliers acknowledging the shipment of components, the component acknowledgment does not contain the serial numbers. Buyers that want to include the serial numbers in the component acknowledgment must enhance the method, `PRE_PROCESSING_GM` in the `ARBCIG_BADI_COMPONENT_ACK`.

BRFplus Output Management

Business Rule Framework plus (BRFplus) is an output management framework in SAP S/4HANA on-premise integrated with SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

You can use BRFplus in SAP S/4HANA on-premise to configure the output parameters for various transaction documents. Once the output parameters are configured, depending on the configured output channel, the documents can be shared with the suppliers through SAP Business Network in the form of an IDoc, Print, Email, or EDI.

ⓘ Note

Currently, BRFplus supports SAP S/4HANA on-premise edition 1610 onwards.

BRFplus can be used for the following transaction documents:

- Purchase order
- Scheduling agreement

The output channel for these transaction documents must be set to IDOC.

By default, SAP S/4HANA on-premise uses output management via message control (NAST) to configure the transaction documents. To use BRFplus for purchase order and scheduling agreement documents, you must first enable BRFplus in the SAP S/4HANA systems. For more information, see [Enabling BRFplus in SAP S/4HANA in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

You must also download the required BRFplus files to configure the output management for SAP S/4HANA. For more information, see the SAP Note [2248229](#).

For more information on the output management in SAP S/4HANA, see the following SAP Notes:

- SAP Note [2228611](#)
- SAP Note [2292571](#)
- SAP Note [2292539](#)

Prerequisites and Restrictions

Prerequisites

- BRFplus output management must be configured in the SAP S/4HANA on-premise system. The status of BRFplus must be active.
- The required BRFplus XML files to configure the output management for SAP S/4HANA on-premise must be downloaded. For more information, see the SAP Note [2248229](#).
- The output parameters such as the output type, condition records, procedures, and access sequences in BRFplus must be configured through SAP S/4HANA on-premise system to generate the IDOC output for

the purchase order and scheduling agreement documents. For more information, see [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Restrictions

SAP S/4HANA on-premise does not support BRFplus output management for scheduling agreement release document type. SAP S/4HANA on-premise supports BRFplus output management only for purchase order and scheduling agreement document types.

Storage Locations for Material Items or Products

[Support for Storage Locations for Material Items or Products \[page 251\]](#)

[Prerequisites and Restrictions \[page 252\]](#)

Support for Storage Locations for Material Items or Products

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release 2006, buyers integrated with SAP Business Network, SAP Business Network for Supply Chain for Buyers, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send information about the storage locations for material items or products in purchase orders, scheduling agreement releases, and scheduling agreement documents.

Buyers can include the storage location for a material item or product, in addition to the plant information while creating purchase orders or scheduling agreement documents.

SAP Integration Suite, managed gateway for spend management and SAP Business Network can process the following in purchase orders, scheduling agreements, or scheduling agreement releases:

- All line items for a material or product with the same storage location
- Line items for a material or product associated with different storage locations
- Line items for a material or product with no storage location

When buyers send purchase orders, scheduling agreements, or scheduling agreement releases containing line items with different storage locations, SAP ERP sends the storage location at the line item level in the Ship To address. When the line items contain the same storage location and plant, SAP ERP sends the storage location at the header level in the Ship To address. When buyers enable the rule, [*Require all items in a ship notice to have the same storage location*](#), SAP Business Network validates whether the line items in the ship notice have the same storage location. Suppliers can create ship notices against the purchase order, scheduling agreement, or scheduling agreement release on SAP Business Network only for line items having the same storage location.

SAP Business Network does not allow suppliers to create a ship notice with line items containing different storage locations. Suppliers that need to create a ship notice with line items associated with different storage locations must ensure that their buyers do not enable the rule, [*Require all items in a ship notice to have the same storage location*](#).

Prerequisites and Restrictions

Prerequisite

SAP ERP

Configure the SAP ERP system for SAP Business Network for Supply Chain integration with SAP Business Network. Also ensure that you configure the necessary parameters to process ship notices sent from SAP Business Network.

SAP Business Network

- Configure your SAP Business Network account for SAP Business Network for Supply Chain integration for buyers and suppliers. Ensure that you have the necessary roles, permissions, and rules to send and receive purchase orders and ship notices on the SAP ERP system.
- Do one of the following:
 - To allow suppliers to create a ship notice with all line items with the same storage location, enable the rule, *Require all items in a ship notice to have the same storage location*.
 - To allow suppliers to create a ship notice with line items having different storage locations, do not enable the rule, *Require all items in a ship notice to have the same storage location*.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Ensure that you enable the required cross references for purchase orders and ship notices on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal.

Restrictions

- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not process the storage locations in service purchase orders.

Integration Support to Enable Clinical Trial Collaboration

This feature supports the collaboration between the buyer and supplier with regards to clinical trials in SAP Intelligent Clinical Supply Management integrated with SAP Business Network Supply Chain Collaboration using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

SAP Intelligent Clinical Supply Management allows you to manage the planning, sourcing, manufacturing, distribution, and reconciliation of supplies for clinical studies, and addresses specific blinding and randomization needs. For more information, see [SAP Intelligent Clinical Supply Management](#).

The integration enhances the purchase order and ship notice documents to support the master data and transaction data of SAP Intelligent Clinical Supply Management. Buyers can create a subcontracting purchase order for clinical manufacturing activities, or a stock transport order to move:

- Component materials to a contract manufacturing organization (CMO).
- Clinical finished goods (CFG) to a distribution site.

The purchase order has been enhanced to include data such as study identifier, study description, protocol identifier, packaging control number (PCN), PCN expiry date, PCN release status, medication list, kit type, kit type description, and pool identifier. The IDoc ARBCIG_ORDERS has been updated with additional segments to accommodate the data.

The ship notice has been enhanced to include data such as study identifier, study description, and protocol identifier. The web service DespatchedDeliveryNotification (service provider DespatchedDeliveryNotification_Async_In) has been updated to accommodate the data.

Note

New Life Sciences industry specific elements have been introduced to the OrderRequest and ShipNoticeRequest messages with the cXML versions 1.2.058, 1.2.059, and 1.2.060. For details please refer to the release notes at [Commerce XML Resources](#).

You can track the purchase order (OrderRequest) and ship notice (ShipNoticeRequest) documents in the **Transaction Tracker** of the **Managed Gateway for Spend&Network** portal.

Related Information

[Prerequisites and Restrictions \[page 253\]](#)

[SAP Business Network Supply Chain Collaboration, clinical trials add-on](#)

Prerequisites and Restrictions

Prerequisites

- You must install or upgrade to SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP S/4HANA, Release 2405 (Q2 2024, SP 0021) or later. For more information, see [Installing and Upgrading the Add-On for SAP ERP and SAP S/4HANA](#).
- You have a license to SAP Intelligent Clinical Supply Management. For more information on setting up SAP Intelligent Clinical Supply Management, see [Administration Guide for SAP Intelligent Clinical Supply Management](#).
- You have an entitlement to SAP Business Network Supply Chain Collaboration and Industry Solution Life Sciences.

Restrictions

- The integration supports only SAP S/4HANA.
- The PCN release status is supported from cXML version 1.2.060 and later.

Transactions for SAP Ariba Procurement solutions

The following sections gives an overview of the transactions for SAP Ariba Procurement solutions.

Note

Ensure that the target namespace is converted to vsap namespace on SAP Ariba Procurement solutions, otherwise all transactions would fail.

[Outbound Transactions for SAP Ariba Procurement solutions \[page 255\]](#)

[Inbound Transactions for SAP Ariba Procurement solutions \[page 268\]](#)

[Account Assignment Category N \(Network\) \[page 312\]](#)

[Support for Configuring Test Environment Host Names for SAP Fieldglass Tenants \[page 314\]](#)

Outbound Transactions for SAP Ariba Procurement solutions

[Contracts \[page 255\]](#)

[Payment Remittance \[page 257\]](#)

[Advance Payment Remittance \[page 259\]](#)

[Goods Receipts \[page 259\]](#)

[Status of Closed Purchase Orders \[page 260\]](#)

[ERP-Initiated Service Entry Sheets \[page 262\]](#)

[ERP-Initiated Purchase Requisition \[page 264\]](#)

[Status of Canceled Invoices \[page 267\]](#)

Contracts

Buyers can create contracts from outline agreements, purchase requisition, or request for quotation containing service items (SAP Item Category D items) that have multiple-level hierarchy on their SAP ERP system and send them to the SAP Ariba Procurement solutions integrated with SAP. ERP buyers can export contract information to the SAP Ariba Procurement solutions for the following:

- Single line contracts
- Multiple line contracts

- Service line contracts
- Contracts containing split-accounting
- Contracts containing tiered pricing
- Contracts containing term pricing

When SAP Ariba Contracts is integrated with SAP ERP, buyers can send service items from the contract line items to SAP ERP to create a contract (outline agreement) with the service items.

Buyers can create sub-agreements before the corresponding master agreements are being published. Having the subagreements ready enables the requested goods or services to be procured without delay. Buyers can also create and publish sub-agreements to a master agreement that is in Pending status.

You can publish a sub agreement contract workspace even if the master agreement is in pending status. If you try to publish a sub-agreement when the master agreement is in neither published nor pending status, the **You cannot publish the Sub Agreement unless the Master Agreement is published or in pending status** message appears.

You must specify the expiry date for the sub-agreement to be on or before the expiry date of the master agreement. If you try to specify the expiry date for the sub agreement to be after the expiry date of the master agreement, the **You cannot publish the Sub Agreement because its expiry date is later than the expiry date of the Master Agreement** message appears.

When you modify the expiry date of the master agreement, the user interface displays a list of the sub-agreement contract workspaces. You can select the check boxes next to the sub-agreements to which you want the new expiry date to be propagated. Note that you can propagate changes only to sub-agreements that are in **Draft** and **Draft Amendment** status.

When you create or edit a sub-agreement workspace, a validation is implemented to prevent you from publishing a sub-agreement contract workspace whose expiry date is later than that of the master agreement, and the **You cannot publish the Sub Agreement because its expiry date is later than the expiry date of the Master Agreement** message appears.

Support for Service Item Hierarchies in Contracts

SAP ERP buyers can import contract information containing material items, service items (SAP Item Category D items) that have a single-level or multiple-level hierarchy to the SAP Ariba Buying solutions as CSV files using the direct connectivity integration method.

The contract can include the following:

Service item (category D) with up to five-level hierarchy (one parent item and four-level child hierarchy)

- One or more service specifications
- Service outlines with up to four-level hierarchies

The contracts containing service items can also include tiered pricing or term pricing, and discounts.

Enhance Standard Structures for Contract

If you are on SAP Integration Suite, managed gateway for spend management and SAP Business Network version lower than SP9, to enhance the following standard structures perform the manual instructions in the SAP Note:

[2913952](#):

- ARBCIG_CONTRACTACCOUNTINGS
- ARBCIG_CONTRACTHEADER
- ARBCIG_CONTRACTLINEITEMS
- ARBCIG_CONTRACTTERMPRICING
- ARBCIG_CONTRACTTIEREDPRICING

Restrictions

- Only the current validity of service contracts is supported for tiered pricing of service contract lines.
- The start date of term pricing validity must be the same as the effective date of the contract.
- The start date and end date of price limits must be within the contract header validity.

Payment Remittance

SAP ERP supports the integration of payment remittance information with SAP Ariba Procurement solutions using SAP Integration Suite, managed gateway for spend management and SAP Business Network. To facilitate this integration, the `Import Remittances Asynchronously` integration event is used.

Payment remittances are payments that the buyer makes against invoices sent by the supplier for the materials sold. This integration allows you to send payment remittance records from SAP ERP to SAP Ariba Procurement solutions. You can determine which payment remittance records you want to send to SAP Ariba Procurement solutions by configuring a time stamp in SAP ERP. When you run the `ARBCIG_REMITTANCE_EXPORT` program, SAP ERP sends the payment remittance records based on the time stamp that you have configured. For example, if you have configured the timestamp as 20180711090906, SAP ERP sends all the payment remittance records that are created after 09 hours:09 minutes:06 seconds on July 11, 2018.

To modify the payment remittance information before you send it to SAP Ariba Procurement solutions, you can implement the BAdI `ARBCIG_REMIT_EXPORT`. You can use the `ARBCIG_REMITTANCE_EXPORT` program to schedule a job to send the payment remittance records from SAP ERP to SAP Ariba Procurement solutions. You must also configure an outbound proxy to send the payment remittance records to SAP Ariba Procurement solutions through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Considerations for Exporting Payment Remittance Records to SAP Ariba Procurement

Solutions

- When you use the Check Payment method, the payment remittance record is exported only after the checks have been printed.
- If you make a payment to a special general ledger (G/L) account, the payment remittance record is not exported to your SAP Ariba Procurement solutions. Common special G/L accounts might include:
 - Down payments
 - Bills of exchange
 - Guarantees
 - Security deposits
 - Individual value adjustments
 - Amortization
 - Interest payable
- The payment documents generated in SAP ERP from manual payment might not include the payment method by default as payment method is not a required field in SAP ERP. However, in SAP Ariba Procurement solutions, the payment method is a required field and the load fails if this field is empty. To avoid a load failure, make sure you enter the payment method in the payment documents generated from a manual payment.
- The payment documents generated in SAP ERP from cancel payments might not include the payment method by default as payment method is not a required field in SAP ERP. However, in SAP Ariba Procurement solutions, the payment method is a required field and if it is empty the load fails. To avoid a load failure, when mapping the values in SAP Ariba Procurement solutions, ensure that the SAP Ariba Procurement solutions map the payment method as C (Check) for cancel payments, when there is no value set in SAP ERP.
- For manual payment, if you print the check after you run the program to export payment remittance records, then the program pulls the check number into SAP Ariba Procurement solutions during the next payment remittance run and updates the payment number in the Payment Transaction object. However, the payment number is not pushed to the SAP Business Network supplier.
- The program to export payment remittance records exports down payments as credit-line items after subsequent payments are made and not at the time they are created.
- Ensure that you do not make payments against invoices from SAP Ariba and non-SAP Ariba invoices in one payment run.

Restrictions

The following are the restrictions in the integration for sending payment remittance information from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions:

- The payment document contains withholding tax.
- The payment document has been reset.
- The payment document is a down payment or a residual payment.
- Cross-company payment is not supported.

Advance Payment Remittance

When buyers have to pay the suppliers in advance towards a full or partial procurement, the buyer creates an advance payment request in SAP Ariba Procurement solutions. The fully approved advance payment request documents are exported to the SAP ERP through SAP Integration Suite, managed gateway for spend management and SAP Business Network to process the payments. In SAP ERP, the advance payment against an advance payment request for the purchase order line item is made using the F-48 transaction. The SAP ERP sends a confirmation to SAP Ariba Procurement solutions when the advance payment is successfully processed. The status of an advance payment request changes to **Paid** when remittance information is received for its amount. The advance payment amount can be adjusted in the invoice during invoice reconciliation.

Prerequisites

- Do the following on SAP ERP:
 - Configure the outbound proxy to enable flow of advance payment remittance between SAP ERP and SAP Ariba Procurement solutions. For more information, see [Configuring Outbound Proxies for Advance Payment Remittance](#) for SAP Ariba Procurement solutions in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Configure the timestamp to determine the data records to be exported to SAP Ariba Procurement solutions. For more information, see [Determining the Data Records to Be Exported to SAP Ariba Procurement Solutions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Configure the business transaction event (BTE) for advance payment remittance. For more information, see [Configuring Advance Payment Remittance Transaction](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- Do the following on SAP Ariba Procurement solutions
 - Enable the **Import Advance Payment Remittance Asynchronously** task.

Limitations

- Advance payment remittances are not supported for line items with split accounting.

Goods Receipts

Buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network integrated with SAP Ariba Procurement solutions can directly export the goods receipts from SAP ERP or SAP S/4HANA to the SAP Ariba Procurement solutions.

Webservices are used to export the receipt information for items received against each order in the SAP ERP or SAP S/4HANA system.

Note

With this feature enabled, you must not send the goods receipt from SAP Ariba Procurement solutions to SAP ERP or SAP S/4HANA.

Prerequisites

- Buyer should be on the latest version of SAP Integration Suite, managed gateway for spend management and SAP Business Network.

- Enable the **ERP Response to Procurement** option in the interface setup program. For more information, see [General Settings for SAP Ariba Procurement Solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Ensure the following settings are configured:
 - Condition records and output types to export goods receipt are configured.

ⓘ Note

For more information, see [Configuration of Transactions Supported by SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

- The `EXPORT_GR_ENABLED` parameter is enabled.
- Movement types are maintained.
- User profile parameters to activate a collective slip for goods receipts are configured.
- Maintain the printer default values for returns and corrections in receipts.
- Enable the following on SAP Ariba Procurement solutions:
 - The **Import Receipts from an External Application Asynchronously** integration event.
 - The **Application.Receiving.RealTimeReceiptImportEnabled** parameter.
 To enable the settings on SAP Ariba Procurement solutions, have your Designated Support Contact log a service request. SAP Ariba Support representative will follow up to complete the request.
- Disable SAP Ariba Procurement solutions from sending goods receipt to SAP ERP or SAP S/4HANA.
- Implement the SAP Note: [2807310](#) - Revoking a goods receipt on SAP ERP is not reducing the total received quantity on SAP Ariba Procurement solutions.

Restrictions

- Amount-based receipts are not supported.
- Multiple purchase orders in a single goods receipt are not supported.
- Import of goods receipt from SAP ERP or SAP S/4HANA is supported only for purchase orders with material line items, and is not supported for purchase orders with both material and service line items.
- When using custom integrations to send receipts to SAP Ariba Procurement solutions via SAP Integration Suite, managed gateway for spend management and SAP Business Network, sending multiple receipts in quick succession is not supported. Ensure there is at least a 30-second delay between each receipt document.
- Batch ID is not supported in goods receipt.

Status of Closed Purchase Orders

Buyers can send the status of purchase orders closed on SAP ERP to SAP Ariba Procurement solutions. The line items closed in the purchase order are marked as received or invoiced using the following indicators on the SAP ERP system:

- Delivery Complete
- Final Invoice

The **Export the Status of Closed Purchase Orders** program fetches the records for the purchase orders closed within a specified range and sends the status to SAP Ariba Procurement solutions.

① Note

Buyers using this feature must not close purchase orders on SAP Ariba Procurement solutions and send the status to SAP ERP.

The following table lists the status messages that buyers can set in SAP ERP and the corresponding status update in SAP Ariba Procurement solutions:

Status in SAP ERP	Status in SAP Ariba Procurement solutions
Delivery Complete	Order Closed for Receiving
Final Invoice	Order Closed for Invoicing
Delivery Complete and Final Invoice	Order Closed for Receiving and Invoicing

[Prerequisites and Limitations \[page 261\]](#)

Prerequisites and Limitations

This section describes the prerequisites and the limitations to export the status of closed purchase orders from SAP ERP to SAP Ariba Procurement solutions.

Prerequisites

Following are the prerequisites for this feature:

- Do the following in SAP Ariba Procurement solutions:
 - Disable the `Application.Purchasing.PushCloseOrderStatusToERP` parameter to block SAP Ariba Procurement solutions from sending the status of a closed purchase order back to SAP ERP.
 - Enable the `Application.Purchasing.AllowPurchaseOrderLineClose` parameter to allow the closure of individual line items in purchase orders.
 - Enable the **Ability to close order / order line item with a new status (status 7 - close for receiving and invoicing)** feature available under **Feature Availability Status**. This feature allow buyers to close a purchase order or purchase order line item with the **Order Closed for Receiving and Invoicing** status.
 - Enable the `Application.Purchasing.EnableChangingFromOneERPOrderLineCloseStatusToAnother` parameter to allow the change of closure status of individual line items in purchase orders.
- Do the following in SAP ERP:
 - Apply the SAP Note: [1987986](#) - Change documents are not created when ELIKZ or EREKZ is set.
 - Enable SAP Integration Suite, managed gateway for spend management and SAP Business Network on SAP Ariba Procurement solutions. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba Procurement solutions](#) in the [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).

- Enable the **ERP Response to Procurement** option in the interface setup program. For more information, see [General Settings for SAP Ariba Procurement Solutions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- Configure the **Purchase Order Closure** event to extract the status of closed purchase orders. For more information, see [Configuring the Event to Extract the Status of Closed Purchase Orders](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- Configure the incremental field restrictions to export the status of closed purchase orders. For more information, see [Configuring the Field Restrictions on the Export of the Status of Closed Purchase Orders](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- Create and activate event type linkage settings for closed purchase orders. For more information, see [Creating and Activating Event Type Linkage Settings for Closed Purchase Orders](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- Configure the program to export the status of closed purchase orders. For more information, see [Configuring the Program to Export the Status of Closed Purchase Orders](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- Schedule the job to export the status of closed purchase orders. For more information, see [Scheduling the Job to Export the Status of Closed Purchase Orders](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

Limitations

Following are the limitations for this feature:

- The status in SAP Ariba Procurement solutions will not update for the purchase orders closed on SAP ERP before implementing this feature. Manually run the program to export the status of the closed purchase orders that you want to update in SAP Ariba Procurement solutions. For more information, see [Configuring the Program to Export the Status of Closed Purchase Orders](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- SAP ERP does not support the **Delivery Complete** status for service purchase orders or non-catalog items. Due to this limitation, SAP ERP does not update the status of closed service purchase orders in SAP Ariba Procurement solutions as **Order Closed for Receiving** or **Order Closed for Receiving and Invoicing**.

ERP-Initiated Service Entry Sheets

This feature enables buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network to send ERP-initiated service entry sheets to SAP Ariba Procurement solutions.

As a buyer, you can create and send service entry sheets from SAP ERP or SAP S/4HANA on behalf of a supplier. The approved service entry sheets are then sent to SAP Ariba Procurement solutions. The feature accelerates the process of service procurement as buyers do not have to wait for the supplier to send the service entry sheet.

You can use the transaction code **SLG1** to monitor the status of the document.

Object	Subobject
ARBCIG PROCUREMENT	ERP_SRV_ENTRY_SHEET

When the service entry sheet is submitted in SAP Ariba Procurement solutions, the status in SLG1 shows **Success**. If the document fails in SAP Ariba Procurement solutions due to any error, the status in SLG1 shows rejection message.

If the transaction fails, you can use the transaction code SRT_TOOLS to reprocess the transaction.

Prerequisites and Restrictions

Prerequisites:

- The buyer must be on the latest version of SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on.
- Enable the following in SAP Ariba Procurement solutions:
 - Load External SES in Ariba Buying
 To enable the settings in SAP Ariba Procurement solutions, have your Designated Support Contact log a service request. SAP Ariba Support representative will follow up to complete the request.
- The buyer must perform the following actions in SAP ERP:
 - Enable SAP Integration Suite, managed gateway for spend management and SAP Business Network on SAP Ariba Procurement solutions. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba Procurement solutions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide*.
 - Configure the parameters for ERP-initiated service entry sheet. For more information, see [Maintaining Parameters for ERP-Initiated Service Entry Sheets](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Configure the outbound proxy to send the ERP-initiated service entry sheet to SAP Ariba Procurement solutions and the inbound proxy for the response. For more information, see [Configuring the Connections to Send Messages](#) for SAP Ariba Procurement solutions in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Activate the event type linkages to send service entry sheets. For more information, see [Activating the Event Type Linkages to Send ERP-Initiated Service Entry Sheets](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

Restrictions

- Editing or deletion of ERP-initiated service entry sheets is not supported.
- Only approved service entry sheets in SAP ERP or SAP S/4HANA are sent to SAP Ariba Procurement solutions.
- ERP-initiated service entry sheets with hierarchy are not supported.
- Attachments to ERP-initiated service entry sheets are not supported.
- Line level comments are not supported.

ERP-Initiated Purchase Requisition

The feature is available in the following solutions integrated with SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- SAP Ariba Procurement solutions

This feature allows buyers to create a purchase requisition for materials in SAP ERP or SAP S/4HANA and export it to SAP Ariba Procurement solutions. Buyers can also delete or cancel the purchase requisition. When a purchase requisition is canceled or deleted, the funds reserved for the requisition are released to the budget in ERP.

Consider the following points for ERP-initiated purchase requisitions:

- Buyers can do a full or incremental export of the purchase requisition to SAP Ariba Procurement solutions.
- Full export would send only the new purchase requisitions that were not sent to SAP Ariba Procurement solutions.
- Incremental export would include the purchase requisitions that were updated on ERP and any new requisitions that were created since the last date of export. The export supports the following categories of purchase requisition:
 - Material
 - Limit
- SAP Integration Suite, managed gateway for spend management and SAP Business Network supports purchase requisitions with only standard document type.
- You can also define the variant and partition to filter the records that are exported to SAP Ariba Procurement solutions. You can maintain the variant and partition information for the export report, filter, and timestamp. The export program would send the records based on the variant and partition details configured in the filter and the timestamp.

⚠ Caution

If the budget check is enabled, editing the same purchase requisition simultaneously on both SAP ERP or SAP S/4HANA and SAP Ariba Procurement solutions could result in data loss.

- If the status of ERP-initiated purchase requisition is **Composing** or **Submitted** on SAP Ariba Procurement solutions, the response to the purchase requisition is shown as **Success** in the **SLG1** log.
- If the ERP-initiated purchase requisition fails on SAP Ariba Procurement solutions, an error is shown in the **SLG1** log.

Prerequisites and Restrictions

Prerequisite:

- Enable the following parameters in SAP Ariba Procurement solutions:
 - Application.Budget.ExcludeRealTimeBudgetChecksOnImportedRequisitions
 - Application.Procure.IncludeErrorCodeInWebServiceErrorResponse
- Enable the following in SAP Ariba Procurement solutions:
 - Support Async processing via Managed Gateway for Spend&Network integrationTo enable the settings in SAP Ariba Procurement solutions, have your Designated Support Contact log a service request. SAP Ariba Support representative will follow up to complete the request.

- Enable SAP Integration Suite, managed gateway for spend management and SAP Business Network on SAP Ariba Procurement solutions. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba Procurement solutions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide*.
- Do the following on SAP ERP:
 - Enable the following options in the interface setup program:
 - **ERP-initiated Pur. Requisition**
 - **Aggregate Requisition**
 - **Procurement Response to ERP**
 - For more information, see [General Settings for SAP Ariba Procurement Solutions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Configure the timestamp to determine the purchase requisition records to export. For more information, see [Determining the Purchase Requisition Records to Export](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Maintain the parameters to determine the purchase requisition records to export. For more information, see [Maintaining Parameters for ERP-Initiated Purchase Requisitions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Configure the parameters to filter the export of purchase requisition records. For more information, see [Filtering the Purchase Requisition Records to Export](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Configure the program to export the purchase requisition records. For more information, see [Exporting Purchase Requisition Data to SAP Ariba Procurement solutions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Implement the customer exit to prevent cyclic updates of the purchase requisition when you run the incremental export of the requisitions from SAP ERP. For more information, see [Implementing Customer Exit for ERP-Initiated Purchase Requisitions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

Restrictions:

- If the origin of the purchase requisition is SAP Ariba Procurement solutions, changes done in ERP is not included in the export.
- Purchase requisitions with the following document types are not supported:
 - Framework Requisition
 - Outline Agreement Requisition
- Service requisitions are not supported.
- If the budget check is enabled, simultaneous edit to the same requisition on both ERP and SAP Ariba Procurement solutions could result in data loss.
- Attachments are not supported as part of export purchase requisition.
- If you add taxes, charges, and discounts to ERP-initiated purchase requisitions on SAP Ariba Procurement solutions, you should not do further changes to the purchase requisitions on ERP.
- You can change purchase requisitions created from Material Requirement Planning only on SAP Ariba Procurement solutions. If a purchase requisition created from Material Requirement Planning is changed in SAP ERP or SAP S/4HANA and exported to SAP Ariba Procurement solutions, a message is returned requesting to update the requisition on SAP Ariba Procurement solutions.
- SAP Ariba Procurement solutions does not support the Account assignment category *U (Unknown)*.

- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support collaboration for ERP-initiated purchase requisitions from SAP ERP or SAP S/4HANA.

Demand Aggregation for Purchase Requisitions

A demand aggregation for purchase requisitions combines multiple purchase requisitions into a single requisition. For example, if there are multiple requisitions for similar goods from a vendor, they can be consolidated into a single requisition.

To enable demand aggregation using SAP Integration Suite, managed gateway for spend management and SAP Business Network, configure the **Aggregate Requisition** option in the Interface Setup Program. For more information, see [General Settings for SAP Ariba Procurement Solutions](#).

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports demand aggregation of purchase requisitions created using Material Requirement Planning. When a demand aggregation request is submitted in SAP Ariba Procurement solutions, it deletes the individual purchase requisitions created using Material Requirement Planning and a consolidated purchase requisition is created.

Note

In case a purchase requisition is created using Material Requirement Planning while the demand aggregation is processing, the buyer has to delete the new requisition.

Work Order-Based Requisitions

This feature provides buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network the capability to send work order-based requisitions from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions with the procurement operations desk capability enabled.

Buyers using the Plant Maintenance module in SAP ERP or SAP S/4HANA can use planned maintenance work orders to procure maintenance and repair services for their plants and machinery. SAP ERP or SAP S/4HANA generate purchase requisitions for the items listed in the work orders. The work order-based requisitions are sent to SAP Ariba Procurement solutions and flow to the procurement operations desk for approval by procurement operations desk agents.

To send work order-based requisitions to SAP Ariba Procurement solutions, select the **Work Order Requisition** option in the ARBCIG_BUY_PR_EXP export program.

Prerequisites

- Enable ERP-initiated purchase requisitions. For more information, see [ERP-Initiated Purchase Requisition \[page 264\]](#).
- Enable the following parameters in SAP Ariba Procurement solutions:
 - Application.Purchasing.WorkOrderReqRfqSupport
- Enable the procurement operations desk in SAP Ariba Procurement solutions.
- Do the following in SAP ERP:

- Configure the program to export the work order-based purchase requisition records. For more information, see [Exporting Purchase Requisition Data to SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Restrictions:

- If the budget check is enabled, any update to the work order requisition on SAP Ariba Procurement solutions will not reflect on ERP.
- Attachments are not supported as part of requisition export.
- If you add taxes, charges, and discounts to work order-based requisitions in SAP Ariba Procurement solutions, you must not do further changes to the requisitions on ERP.

Status of Canceled Invoices

Buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network can cancel or reject an invoice in SAP ERP or SAP S/4HANA after the invoice is reconciled in SAP Ariba Procurement solutions. For example, buyers can cancel the invoice if it was posted to the wrong account or with the wrong amount. This feature allows buyers to send the status of the canceled or rejected invoices to SAP Ariba Procurement solutions.

If an approved invoice is canceled or rejected in the ERP system, the status of the invoice reconciliation document changes from **Paying** or **Paying Failed** to **Rejected** in SAP Ariba Procurement solutions.

When the invoice reconciliation document is rejected, the corresponding amount in the purchase orders, contracts, and goods receipts that were updated by the invoice are reduced by the amount in the rejected invoice.

Prerequisites and Restrictions

Prerequisite:

- Enable SAP Integration Suite, managed gateway for spend management and SAP Business Network on SAP Ariba Procurement solutions. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- Do the following in SAP ERP:
 - Enable SAP Integration Suite, managed gateway for spend management and SAP Business Network on SAP Ariba Procurement solutions. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba Procurement solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
 - Configure the parameters to export the status of canceled invoices. For more information, see [Maintaining Parameters to Export Status of Canceled Invoices in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
 - Create a business transaction event (BTE) to export the status of canceled invoices. For more information, see [Configuring the Transaction Event for Invoice Status Export in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

- Configure the timestamp to determine the parked invoice records to be exported to SAP Ariba Procurement solutions. For more information, see [Maintaining Date and Time to Export the Status of Parked Invoices in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Schedule the report to send the status of a canceled invoice to SAP Ariba Procurement solutions. For more information, see [Scheduling Job to Export Status of Invoices in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Restrictions:

- Deletion of parked FI invoices is not supported.

Inbound Transactions for SAP Ariba Procurement solutions

Prerequisite

Before you configure the inbound transactions for SAP Ariba Procurement solutions, you must apply SAP Note [1387485](#): **Account Assignment Distribution Value changes on Replication** for split by amount to use this functionality on their SAP ERP or SAP S/4HANA. You must also activate the **MM Multiple Account Assignment** business function (`LOG_MM_MAA_1`) to use the amount-based distribution for the amount and percentage distribution.

[Purchase Requisition \[page 268\]](#)

[Purchase Order \[page 272\]](#)

[Service Requisitions and Service Purchase Orders \[page 279\]](#)

[Integration to Support Plant Information in Requisitions and Purchase Orders \[page 285\]](#)

[Goods Receipt \[page 286\]](#)

[Advance Payment \[page 288\]](#)

[Service Sheet \[page 290\]](#)

[Invoice \[page 292\]](#)

[Asset Management \[page 306\]](#)

[Stock Inventory \[page 307\]](#)

[Stock Reservation \[page 308\]](#)

[Integration to Support Purchase Requisitions, Blanket Purchase Orders, and Blanket Order Invoices with Standing Orders from SAP Ariba Procurement Solutions to SAP ERP or SAP S/4HANA \[page 310\]](#)

Purchase Requisition

When buyers create a purchase requisition for products and services using procurement application, the application allows to check the available budget before the purchase requisition is approved. When the purchase

requisition is approved, the procurement application creates a purchase order against the purchase requisition and sends it to suppliers.

When you withdraw and revert a purchase requisition to a previous version, the following issues can occur in SAP ERP or SAP S/4HANA:

- The original line item number will not be restored and a new line item will be generated.
- The purchase requisition might not be linked to the correct purchase order.

To prevent these issues, ensure that you resubmit the purchase requisition after withdrawal.

Buyers using SAP ERP must complete the configuration tasks required for integration with the SAP Ariba Procurement solutions to enable budget checks and funds management accounting functionality.

The budget check functionality is available for General Ledger Account, Cost Center, WBS elements, Internal Orders, Funds Management, and Grants Management in SAP ERP.

To enable real-time budget check, you must configure integration scenarios for the following in the SAP Ariba Procurement solutions:

1. Budget check
2. Requisition

Using the full load option in SAP ERP, you can extract all the fields of the funds management master data. Using the incremental load option, you can extract earmarked funds only. Funds management derivation is supported by the following transactions:

- Requisitions (Internal Orders, WBS, Funds Management, and Grants Management)
- Change Requisitions (Internal Orders, WBS, Funds Management, and Grants Management)
- Purchase Orders
- Change Purchase Orders
- Invoices

The funds management accounting functionality allows the SAP Ariba Procurement solutions to derive accounting values from the SAP ERP for the following:

- Funds management account assignment fields on requisitions
- Invoice reconciliation documents based on other accounting information that is included in such documents

The following screens in SAP ERP include the checkbox **Enable Funds Management** under **Funds Management Data**:

- **Export All Master Data Required For On-DemandApplication**
- **Pull All The Master Data In Diff Lang Required For Ariba Application**

Check **Enable Funds Management** to display the following checkboxes:

- **Fund**
- **Funds Center**
- **FM Area**
- **Earmarked Fund**
- **Commitment Item**
- **Grant**
- **Functional Area**

- **Budget Period**

Integrating taxes and charges

Requisition with budget check functionality supports taxes and charges (Total Landed Cost). The following section describes the behavior in SAP ERP for requisitions with taxes, charges, and discounts received from the SAP Ariba Procurement solutions:

Note

The budget reserved amount is equal to the final requisition amount derived in SAP ERP after calculating all applicable taxes, charges, and discounts.

The following examples describe the behavior of SAP ERP when requisitions received from SAP Ariba Procurement solutions contain a:

Line item with a charge	From SAP Ariba Procurement solutions: A line item of USD 100 has a shipping charge of USD 10. Result in SAP ERP: Single line with amount = USD 110.
Line item with charges	From SAP Ariba Procurement solutions: A line item of USD 100 has a shipping charge of USD 10 and a handling charge of USD 5. Result in SAP ERP: Single line with amount = USD 115.
Line item with a charge and tax on charge	From SAP Ariba Procurement solutions: A line item of USD 100 has a shipping charge of USD 10 along with a tax amount of USD 5. Result in SAP ERP: Two lines: <ul style="list-style-type: none"> First line contains the actual line item amount = USD 100. Second line contains the total amount of shipping charge and tax on the shipping charge = USD 15.
Line item with a non-deductible tax amount	From SAP Ariba Procurement solutions: A line item of USD 100 has a non-deductible tax of USD 5. Result in SAP ERP: Single line with amount = USD 105.
Line item with a deductible tax amount	From SAP Ariba Procurement solutions: A line item of USD 100 has a deductible tax of USD 5. Result in SAP ERP: Single line with amount = USD 100.
Line item with a discount	From SAP Ariba Procurement solutions: A line item of USD 100 has a discount of USD 10. Result in SAP ERP: Single line with amount = USD 90.

[Prerequisites \[page 271\]](#)

[Restrictions \[page 271\]](#)

Prerequisites

- Maintain the following configurations on SAP Ariba Procurement solutions before sending purchase requisitions to the SAP ERP system:
 - Enable the following parameters:
 - Application.Budget.StartDateToEnableRealTimeBudgetChecksInExternalSystem
 - Application.Budget.RealTimeBudgetSynchronousSubmit
 - Application.Budget.EnableFundsManagement
 - Application.Budget.SendEarlierVersionRequisitionToExternalSystemForBudgetReversal
 - Application.Procure.EnableTaxesChargesAndDiscount
 - Application.Procure.EnableServiceItemFieldInRequisition
 - Configure the following integration events:
 - Export Requisitions for User-Initiated External Budget Check
 - Export Requisitions to External System to Revert Funds
 - Export Requisitions to Get the Accounting Information for Funds Management
 - Export Submitted Requisitions for External Budget Check
 - Export Modified Requisitions To Revert Funds
- Before creating requisitions, if not already applied, apply the following SAP Notes in your SAP ERP:
 - SAP Note [1279915](#) -Purchase requisition BAPI: Release date is not transferred.
 - SAP Note [970686](#) -Item category change deletes source of supply.
 - SAP Note [962638](#) -Valuation price is not output.
 - SAP Note [1510700](#) -BAPI_PR_CHANGE: account assignment failure.
- Ensure that the Business Function, LOG_MM_CI2 switch MM_SFWS_SC2 is active, if you want to include the budget information in purchase requisitions containing service line items.
- To display an error message in the SAP Ariba Procurement solutions when you exceed the budget, perform the following in SAP ERP:
 - Set appropriate tolerance limits for the **General Budget Profile** and the **Budget Profile Investment** using the **Define Tolerance Limits for Availability Control**.
 - Set the parameter **Availability control action** to **3 (Error message)**.
- To avoid calculation errors in SAP ERP, you must not exceed the configured decimal limit in the parameter `Application.Procure.ERPAmountPrecision` when entering values in the SAP Ariba Procurement solutions.

Restrictions

- SAP Ariba supports only web services to integrate corresponding transactional documents associated with a requisition containing the budget information.
- The integration does not support percentage-based condition. Only amount-based conditions are supported.
- When users edit a requisition in the SAP Ariba Procurement solutions and change a multiple split-accounting to a single account assignment, the **Distribution** flag indicator for the requisition cannot be reset to zero on SAP ERP or SAP S/4HANA.

The SAP Ariba Procurement solutions integrated with SAP ERP or SAP S/4HANA resets the **Distribution** flag indicator to 1 (Distribution by Quantity) and sets the **Partial Invoice** indicator to 2.

SAP Ariba recommends that you update the requisition only on the SAP Ariba Procurement solutions.

However, if you edit the requisition in SAP ERP or SAP S/4HANA and change the multiple split accounting to a single account assignment, the following error appears: If only one account assignment item, choose "Single Account Assignment".

- The SAP Ariba Procurement solutions integrated with SAP ERP or SAP S/4HANA does not support non-PO based invoices with earmarked fund as the signature of the BAPI `BAPI_INCOMINGINVOICE_CREATE` does not have the following fields for the earmarked fund:
 - Document Number for Earmarked Funds
 - Earmarked Funds Document Item
- As a result, for non-PO based invoices, the amount is consumed from the overall budget instead of the earmarked fund.
- When real-time budget check is enabled in the SAP Ariba Procurement solutions, SAP ERP or SAP S/4HANA does not support changing units of measure in a purchase order referencing a requisition. If you attempt to change the units of measure when creating the purchase order in the SAP Ariba Procurement solutions, the following error message appears in SAP ERP:
`Order unit XX not convertible into unit XX of requisition`
- SAP ERP or SAP S/4HANA supports maximum 40 characters in line item text for purchase requisition. If the length of line item text imported from SAP Ariba Procurement solutions exceed 40 characters, SAP ERP or SAP S/4HANA would truncate the text.
- Total landed cost (TLC) with the budget check is not supported for service requisitions.
- Account assignment category `U (Unknown)` is supported only on service line items.
- Purchase requisition can be deleted by clicking the **Delete** button. A copy of the deleted purchase requisition will be retained in SAP ERP or SAP S/4HANA. For more details, see [Scenarios for Validation Checks on Requisitions in the ERP System](#).
- Multiple tax components for a single line item is not supported.
- For amount-based purchase requisitions, split accounting is not supported.
- SAP Ariba Procurement solutions do not support any values for the **GR Non-Valuated** checkbox available in SAP ERP or SAP S/4HANA.
- For the Japanese Yen (JPY), South Korean Won (KRW), and Vietnamese Dong (VND) currencies, you can enter upto 11 digits for amount.
- After a purchase requisition is created and approved in SAP Ariba Buying and Invoicing, any changes to the **Ship To (Plant)** field under the **Shipping - by Line Item** section are not supported. For more information, see SAP Note [1887980](#).
- When a purchase requisition is submitted from SAP Ariba Buying and Invoicing and it includes multiple charges with a line type category set to 16, the values of those charges are not included.

Purchase Order

Buyers create a purchase order to request for product or services from suppliers. A purchase order is sent from SAP Ariba Procurement solutions to SAP ERP or SAP S/4HANA and upon approval the SAP Ariba Procurement solutions would send it to SAP Business Network. SAP Business Network then routes the purchase order to the appropriate supplier using the supplier's preferred order routing method.

The following types of purchase orders are supported:

- Standard purchase orders
- Service purchase orders

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[Restrictions \[page 278\]](#)

Integrating Amount-Based Purchase Orders

The SAP Ariba Procurement solutions allow you to export amount-based purchase orders to SAP ERP or SAP S/4HANA. For amount-based purchase orders, the SAP Ariba Procurement solutions map the amount to the quantity in SAP ERP or SAP S/4HANA, and sets the unit price to 1. For example, if the amount of the purchase order in the SAP Ariba Procurement solutions is \$95, it is exported to SAP ERP or SAP S/4HANA as a receipt with a quantity of 95 and with a price of \$1.

Integrating Changed and Canceled Purchase Orders

The SAP Ariba Procurement solutions can export changed and canceled purchase orders to SAP ERP or SAP S/4HANA.

The following are important notes on exporting changed and canceled purchase orders to SAP ERP or SAP S/4HANA:

- If you enable the **change/cancel purchase order** feature, users must change or cancel orders through the SAP Ariba Procurement solutions and not through SAP ERP. Therefore, apply the appropriate authorization concept in SAP ERP or SAP S/4HANA to prevent users from changing purchase orders directly in SAP ERP or SAP S/4HANA.
- Plant data is not editable in the following situations:
 - Purchase Order Line Item is partially or fully received in the SAP Ariba Procurement solutions or SAP ERP or SAP S/4HANA.
 - Purchase Order Line Item is partially or fully invoiced in the SAP Ariba Procurement solutions or SAP ERP or SAP S/4HANA.

Importing Header Status of Purchase Orders

When changed orders are in a Received, Receiving, Invoiced, or Invoicing state, the SAP Ariba Procurement solutions cannot cancel them. Similarly, when purchase orders have been received or invoiced in SAP ERP or SAP S/4HANA, the cancel export to SAP ERP or SAP S/4HANA fails.

If an order reaches SAP ERP or SAP S/4HANA successfully, its status can still change in SAP ERP or SAP S/4HANA. For example, if you receive against an order in SAP ERP or SAP S/4HANA, a subsequent cancel order from SAP Ariba Procurement solutions is certain to be rejected. To reduce the occurrence of such situations, the scheduled task **ProcessERPHeaderStatusPull**, imports header status information from SAP ERP or SAP S/4HANA. This task sets the **ERPAllowCancel** field, which specifies whether or not the order can be canceled.

① Note

- Use ProcessERPHeaderStatusPull only if you have enabled change and cancel order exports to SAP ERP or SAP S/4HANA, and you are doing a lot of receiving in SAP ERP or SAP S/4HANA.
- The ProcessERPHeaderStatusPull scheduled task does not eliminate all the cancel export failure errors. SAP ERP or SAP S/4HANA uses many factors to determine if it is possible to cancel an order. However, the status import is based on the invoicing and receiving status. This is applicable for the web services channel. For file channel, this is a batch data import and pulled as part of status import.

ProcessERPHeaderStatusPull imports the status for all orders that are in the **Ordered** state for the time period (days before the current date) you specify in the `QueryPeriod` parameter.

Integrating Closed Purchase Orders

SAP Ariba Procurement solutions Cloud integration enables buyers using SAP Ariba Procurement solutions integrated with SAP ERP or SAP S/4HANA to integrate purchase order closure information from SAP Ariba Procurement solutions with SAP ERP or SAP S/4HANA. The integration supports header level and line level close.

Integration of purchase order closure information between SAP Ariba Procurement solutions and SAP ERP or SAP S/4HANA ensures that the purchase order information in SAP Ariba Procurement solutions and SAP ERP or SAP S/4HANA is in sync, and improves the fund allocation and utilization. SAP ERP or SAP S/4HANA receives the status when a purchase order is closed in SAP Ariba Procurement solutions. SAP ERP or SAP S/4HANA releases any unused fund that was allocated for the purchase order and sets any open quantity to zero.

However, note that the integration also updates the status of corresponding purchase orders in SAP ERP or SAP S/4HANA when buyers reopen purchase orders in SAP Ariba Procurement solutions. If a buyer reopens a closed purchase order in SAP Ariba Procurement solutions, SAP ERP or SAP S/4HANA restores any fund that was released as unused when the purchase order was closed.

In Cloud integrations, SAP Ariba Procurement solutions sends the purchase order closure information to SAP ERP or SAP S/4HANA in real time.

In SAP Ariba Procurement solutions, buyers can specify a status while they close a purchase order. The following table lists the status messages that buyers can set in SAP Ariba Procurement solutions and the corresponding status update in SAP ERP or SAP S/4HANA:

Status in SAP Ariba Procurement solutions	Status in SAP ERP
Order Closed for Receiving	Delivery Complete
Order Closed for Invoicing	Final Invoice
Order Closed for All Actions	Delivery Complete and Final Invoice

When buyers reopen purchase orders that were previously closed in SAP Ariba Procurement solutions, the status checkboxes, such as **Delivery Complete** or **Final Invoice** or both, in SAP ERP or SAP S/4HANA for the corresponding purchase orders are also cleared.

Integrating Taxes and Charges

This section describes the behavior in SAP ERP or SAP S/4HANA for purchase orders with taxes, charges, and discounts received from the SAP Ariba Procurement solutions:

The following examples describe the behavior of SAP ERP or SAP S/4HANA when purchase orders received from SAP Ariba Procurement solutions contain a:

Line item with a charge From SAP Ariba Procurement solutions: A line item of USD 100 has a shipping charge of USD 10.
Result in SAP ERP or SAP S/4HANA: Single line with amount = USD 110.

Shipping charge = USD 10 is maintained as a condition in the **Conditions** tab of the purchase order transaction.

Line item with charges From SAP Ariba Procurement solutions: A line item of USD 100 has a shipping charge of USD 10 and a handling charge of USD 5.

Result in SAP ERP or SAP S/4HANA: Single line with amount = USD 115.

Shipping charge = USD 10 and **Handling charge** = USD 5 are maintained as separate conditions in the **Conditions** tab of the purchase order transaction.

① Note

When multiple condition types are added to a single line item in a purchase order, ensure that each condition type is defined uniquely in the lookup table. If this is not done, the same condition type applies to all charges, which may result in incorrect updates in SAP ERP or SAP S/4HANA.

For more information on defining lookup values, see [Defining Values in the Lookup Table](#).

line item with a charge and tax on charge From SAP Ariba Procurement solutions: A line item of USD 100 has a shipping charge of USD 10 along with a tax code, for example, I1.

Result in SAP ERP or SAP S/4HANA: Two lines:

- First line contains the actual line item amount = USD 100.
 - Second line contains the shipping charge (net price) and tax on the shipping charge.
- Tax code** I1 is maintained in the **Invoice** tab of the purchase order transaction.

Line item with a tax amount From SAP Ariba Procurement solutions: A line item of USD 100 has a tax code, for example, I1.

Result in SAP ERP or SAP S/4HANA: Single line with amount = USD 100.

Tax code I1 is maintained in the **Invoice** tab of the purchase order transaction.

Line item with a discount From SAP Ariba Procurement solutions: A line item of USD 100 has a discount of USD 10.

Result in SAP ERP or SAP S/4HANA: Single line with amount = USD 90.

Discount = USD 10 is maintained as a condition in the **Conditions** tab of the purchase order transaction.

Attachments and Comments with Purchase Order

File attachments are useful when buyers need to attach supporting memos, drawings, or faxes with their purchase orders. Using this feature, buyers can use attachments and comments with purchase orders in SAP ERP or SAP

S/4HANA-integrated documents. In SAP ERP or SAP S/4HANA, the attachments and comments are processed as follows:

- **Attachments**

- Header level using the SAP Generic Object Services (GOS) for purchase orders.
- Line level using the SAP Document Management System (DMS) for purchase orders.

Along with the attachments on the header and line level, the following additional information is sent from the SAP Ariba Procurement solutions to SAP ERP or SAP S/4HANA:

- File name: Specifies file name. If this field is left blank in the SAP Ariba Procurement solutions, the file displays as unknown in SAP ERP or SAP S/4HANA.
- File type: Specifies file extension.
- File size
- Comments on header and line level.

If files fail to attach with purchase orders, the status is updated in the SLG1 logs.

ⓘ Note

SAP ERP or SAP S/4HANA truncates file name of attachments exceeding 50 characters (inclusive of extension).

If you modify a purchase order in SAP Ariba Procurement solutions by adding an attachment, the buyer's SAP ERP or SAP S/4HANA sends a corresponding purchase order with an attachment to SAP Business Network.

ⓘ Note

If all the attachments associated with a purchase order line item in SAP Ariba Procurement solutions are removed, the change PO triggered to the buyer's SAP ERP or SAP S/4HANA subsequently does not contain an indicator for this deletion. Because of this problem, the attachments associated with the purchase order line item in the buyer's SAP ERP or SAP S/4HANA are not removed.

Buyers can also include URL-based links to external information sources in line items of purchase orders. External information sources can include anything that a buyer wants to add to support an order item. Examples of such sources are supporting memos, technical drawings, or a link to a website containing item specifications. Buyers can choose to decide if they want to send the external information sources (attachments) as a copy or provide references to attachments as URL-based links. To provide the reference to an attachment, in the `OrderRequestcXML`, buyers can include the URL in the `AttachmentReference` element in the item's `ItemDetails` element. Suppliers can use the links to securely access external information sources using single sign-on (SSO).

- **Comments**

Comments are supported for purchase orders at both the header and the line level. The comments field allows you to enter free form text that can be associated with a purchase order. You use the comments field to enter any additional information about a purchase order.

Integrating Evaluated Receipt Settlement (ERS) for Purchase Orders

The feature is supported in SAP Ariba Procurement solutions integrated with SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

The feature allows buyers to use Evaluated Receipt Settlement (ERS) to automatically settle confirmed material and service purchase orders.

The flag for ERS is set in the vendor's master record. The ERS flag must be enabled in SAP ERP or SAP S/4HANA and the vendor master data must be synchronized with the SAP Ariba solution so that the buyers can create a purchase order with ERS enabled line item and process it.

Note

If the ERS flag is disabled in SAP ERP or SAP S/4HANA and if the vendor master data is not synchronized with the SAP Ariba Procurement solutions after this, a change purchase order processed from the SAP Ariba Procurement solutions with the ERS flag enabled for a line item will fail in SAP ERP or SAP S/4HANA.

Prerequisites

- Install the latest SAP Ariba Procurement solutions components.
- Configure the purchase order integration, change purchase order integration, and close purchase order integration between SAP Ariba Procurement solutions and SAP ERP or SAP S/4HANA.
- Enable the following asynchronous integration events in SAP Ariba Procurement solutions:

Purchase Orders Export Purchase Orders Asynchronously

Import Purchase Order Status Asynchronously

Change Purchase Order Export Change Purchase Orders Asynchronously

Import Change Purchase Orders Status Asynchronously

Cancel Purchase Order Export Cancel Purchase Orders Asynchronously

Import Cancel Purchase Order Status Asynchronously

Purchase Order Header Status Import Purchase Order ERP Header Status Asynchronously

- Enable the Export Purchase Order Close Status synchronous integration event for close purchase order in SAP Ariba Procurement solutions.
- Enable the following parameters in SAP Ariba Procurement solutions:

PO Application.Procure.EnableTaxesChargesAndDiscount

Application.Purchasing.RenumberReqLineItemSplits

Close PO Application.Purchasing.PullCloseOrderStatusAckFromERP

Application.Purchasing.PushCloseOrderStatusToERP

Application.Purchasing.AllowPurchaseOrderLineClose

Cancel PO Application.Procure.UseCancelOrderIntegration

Service PO Application.Procure.EnableServiceItemFieldInRequisition

Attachments:

- For purchase orders and change purchase orders, enable `Application.Procure.AllowAttachmentToERP` and `Application.Ordering.AllowOrderAttachmentToERP` parameters.
- To control the file formats that can be attached to purchase orders in the SAP Ariba Procurement solutions use the parameter `Application.Approvable.AllowedAttachmentExtensions`. File formats that are not specified cannot be used as attachments. This parameter is useful for restricting file formats (such as EXE files) that might violate company security policies.
- Ensure that you set the decimal places for currency in the TCURX table. If decimal places are not necessary, enhance the Business Add-In (BAdI) to meet the requirement.

Integrating Evaluated Receipt Settlement (ERS) for Purchase Orders

- Enable the following parameters in SAP Ariba Procurement solutions
 - `Application.Procure.EnableERS`
 - `Application.Procure.EnableERSForServiceItems`
 - `Application.Procure.EnableERSForSAP`
- To include matched receipts in payment requests exported from SAP Ariba Procurement solutions, enable the parameter `Application.Invoicing.IncludeMatchedReceiptsInPaymentExport`.
- Do the following in ERP:
 - Select the **AutoEvalGRSetmt Del** and **AutoEvalGRSetmt Ret** checkboxes in **Vendor Purchasing Data**. The ERS information is part of the supplier related master data. When you run the Master Data Export program, the ERS details are also exported.

Restrictions

- The SAP Ariba Procurement solutions do not support exporting zero value amount for line items in amount-based purchase orders.
- The integration does not support percentage-based condition. Only amount-based conditions are supported.
- Purchase orders with a combination of charges with and without taxes are not supported.
- For a purchase order line item, only a summation of taxes is allowed. Multiple or nested tax lines are not supported.
- If the Account Assignment category is modified in the SAP Ariba Procurement solutions, the Account Assignment category is changed in SAP ERP or SAP S/4HANA. Furthermore, the G/L Account is changed to a default G/L Account after it has been pushed to SAP ERP or SAP S/4HANA. To resolve this issue, modify the G/L Account in SAP ERP or SAP S/4HANA using the **Account Assignment** tab in the **Item Detail** section.
- Account assignment category *U (Unknown)* is supported only on service line items.
- SAP Ariba Procurement solutions does not allow to edit purchase orders with Account assignment category A (Asset).
- SAP ERP or SAP S/4HANA does not support the Order Closed and Adjusted for Receiving and Closed for Change status for purchase orders. Purchase orders closed with either of these status flags in SAP Ariba Procurement solutions are not updated in SAP ERP or SAP S/4HANA.

- Buyers cannot add or change the price-based quantity on a purchase order line item with charge.
- Purchase orders containing line items with a **Price** of 0 are not supported.
- For amount-based purchase orders:
 - Split accounting is not supported and discounts cannot be applied.
 - Input for **Net Amount** or **Net Price Amount** can support up to 28 characters.
 - Input for **Quantity** can support up to 13 characters.
- SAP ERP or SAP S/4HANA supports maximum 40 characters in line item text for create and change purchase orders. If the length of line item text imported from SAP Ariba Procurement solutions exceeds 40 characters, SAP ERP or SAP S/4HANA would truncate the text.
- Deleting a comment on SAP Ariba Procurement solutions will not delete the corresponding comment in SAP ERP or SAP S/4HANA.
- Attachments for service line items in purchase orders are supported only at the parent line level and not at the child line level.
- The attachment size cannot exceed 74 MB either at the header or line level (purchase orders). If you attempt to exceed the file attachment size of 74 MB, SAP ERP or SAP S/4HANA and the SAP Ariba Procurement solutions either prevent or reject the document with an error message.
- Multiple attachments are permitted, however:
 - The limit for combined attachment size is 100 MB.
 - The limit for the number of attachments per line item is 20.
- When you add a new line item to a purchase order in SAP Ariba Procurement solutions, associate an attachment to the line item, and integrate the corresponding purchase order from the buyer's SAP ERP or SAP S/4HANA with SAP Business Network, you can view two IDocs in the transaction tracker in SAP Integration Suite, managed gateway for spend management and SAP Business Network. The attachment is associated with the latest IDoc.
- For the Japanese Yen (JPY), South Korean Won (KRW), and Vietnamese Dong (VND) currencies, you can enter upto 11 digits for amount.
- For purchase order and follow-on documents, SAP Ariba Procurement solutions support only the **manual receipt – received by quantity** (Commodity code, **1411**) and **manual receipt – received by amount** (Commodity code, **44112002**) receiving type fields.

Integrating Evaluated Receipt Settlement (ERS) for Purchase Orders

- ERS of blanket purchase order is not supported.
- Purchase orders with a combination of charges with and without taxes are not supported.
- SAP Ariba Procurement solutions do not support any values for the **GR Non-Valuated** checkbox available in SAP ERP or SAP S/4HANA.

Service Requisitions and Service Purchase Orders

Buyers create service requisitions in the SAP Ariba Procurement solutions to request for services performed by supplier organizations. While creating service requisitions, buyers can validate the requisitions for the availability of budgets in SAP ERP or SAP S/4HANA. If budget is available in SAP ERP or SAP S/4HANA, buyers would get

a successful response. If the response is successful, the SAP Ariba Procurement solutions sends a request to SAP ERP or SAP S/4HANA to create a service requisition to reserve the fund. Buyers can delete or cancel a service requisition. In that case, the funds reserved for the requisition is released to the budget in SAP ERP or SAP S/4HANA.

When a service requisition is fully approved, the SAP Ariba Procurement solutions creates a service purchase order corresponding to the requisition. The service purchase order is then sent to SAP ERP or SAP S/4HANA. SAP ERP or SAP S/4HANA assigns a unique number to the service purchase order and sends it to the SAP Ariba Procurement solutions. SAP Ariba Procurement solutions then sends the purchase order to the supplier on the SAP Business Network.

The **Expected Amount** field for service purchase orders in the SAP Ariba Procurement solutions is mapped to the **Expected value** under the tab **Limits** of the service order in SAP ERP or SAP S/4HANA. The **Expected Amount** is added to the **Net Price** condition for the main line item.

The create and change interfaces of service requisitions and service purchase orders support all scenarios related to the addition, modification, and deletion of the account assignments of child services and their splits.

Note

When a split line item is deleted in SAP Ariba Procurement solutions, the line would reflect in SAP ERP or SAP S/4HANA with the value 0.

There is a limitation on SAP ERP or SAP S/4HANA on the precision value for percentage and amount. You can configure the following parameters on SAP Ariba Procurement solutions to ensure the rounded-off value matches on SAP ERP or SAP S/4HANA:

- `Application.Procure.PercentagePrecisionForSplits` - Set the precision for percentage. SAP ERP supports precision up to one decimal place.
- `Application.Procure.ERPAmountPrecision` - Set the precision for amount. SAP ERP supports up to two decimal places.
- `Application.Invoicing.ERPAmountPrecisionInCXML` - Specify whether the ERP decimal precision for amounts, as defined by the parameter `Application.Procure.ERPAmountPrecision`, is used in invoice reconciliation documents sent to SAP Business Network. If set to **Yes**, the amounts are formatted using the `ERPAmountPrecision` value. If set to **No**, amounts are formatted using the currency's standard precision.

Service purchase orders created with the simplified procurement of services capability

Buyers integrated with SAP Business Network, SAP Ariba Procurement solutions, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can enable simplified procurement of services. This capability enables buyers to create service requisitions and service purchase orders without adding child items, and enables suppliers to invoice these orders without submitting service sheets. This capability simplifies and expedites the invoicing process for service orders.

When a service purchase order created in SAP Ariba Procurement solutions is sent to SAP ERP or SAP S/4HANA, the purchase order is created with the **GR-Bsd IV** and **S.-Based IV** fields deselected in the **Invoice** tab, and the **Goods Receipt Indicator** field deselected in the **Delivery** tab. Based on the buyer configuration, either SAP ERP or SAP S/4HANA or SAP Ariba Procurement solutions send the purchase order to SAP Business Network.

Note

External budget checks for requisitions created with the simplified procurement of services capability enabled work for SAP EHP4 for SAP ERP 6.0, or later.

Spend Limits for Unplanned Items

In service purchase requisitions, buyers can specify the following limits for the amounts that can be spent on unplanned items:

- **Contract limit** - the maximum amount that can be spent on unplanned contract items.
A contract must be selected before this amount can be specified.
- **Other limit** - the maximum amount that can be spent on unplanned non-contract items.

When service sheets and invoices are submitted, the value of the unplanned contract and non-contract items are validated against these limits.

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports these fields when importing service requisitions from SAP Ariba Procurement solutions to SAP ERP or SAP S/4HANA. These fields in the associated service sheets and invoices are also supported.

Account Assignment Category U (Unknown)

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2105 (Q2 2021), buyers on SAP Ariba Procurement solutions can export account assignment category *U (Unknown)* for service line items to SAP ERP or SAP S/4HANA using the SAP Integration Suite, managed gateway for spend management and SAP Business Network.

You can use account assignment category *U (Unknown)* when you are not certain of the appropriate account assignment category to which a service line item's expenditure is to be assigned. When you assign account assignment category *U (Unknown)* to a service line item, you are not required to provide accounting information.

[Prerequisites \[page 281\]](#)

[Restrictions \[page 282\]](#)

[Support for SAP Fieldglass Integration with SAP Ariba Buying and Invoicing for Service Requisitions \[page 284\]](#)

Prerequisites

Following are the prerequisites to integrate enhancements for service requisitions and service purchase orders:

- The buyers must be on SAP EHP4 for SAP ERP 6.0 or higher.
- The buyers must apply the following SAP Notes:
 - [2764801](#)
 - [2621735](#)
 - [2616015](#)
 - [2015604](#)
 - [2578515](#)
 - [2511903](#)
 - [2696614](#)
 - [1894378](#)

- [2670365](#)
- [2526243](#)
- [2747297](#)
- <https://me.sap.com/notes/>

Account Assignment Category U (Unknown)

SAP ERP or SAP S/4HANA

You must import the following master data from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions:

- account assignment category *U* (*Unknown*)
- accounting field display status
- account category language

For more information about importing master data to SAP Ariba Procurement solutions, see [Importing Master Data from SAP ERP to SAP Ariba Procurement Solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

SAP Ariba Procurement solutions

Enable **Validate unknown account assignment category when users submit invoices** (`Application.Procure.SupportUnassignedAccountCategory`) parameter.

For more information about the parameter, see [Validate unknown account assignment category when users submit invoices](#) in [Intelligent Configuration Manager Parameters Reference](#).

Restrictions

Following are the restrictions for integrating enhancements for service requisitions and service purchase orders:

- Service purchase orders and service purchase requisitions are not supported on versions below SAP EHP4 for SAP ERP 6.0.
- Service hierarchy is not supported.
- Tax and charges for service items in a service purchase order are not supported.
- Change of condition types for service purchase order is not supported. For more information see SAP Note: [499722](#) FAQ: Pricing/Conditions in External Services Management (ESM).
- Irrespective of the unit of measure (UOM) entered in the main line item for service requisitions in the SAP Ariba Procurement solutions, quantity changes to 1 activity unit (AU) in service orders in SAP ERP or SAP S/4HANA. Service child line items in the service orders can have different quantity and UOM as needed.
- SAP ERP or SAP S/4HANA does not support the `Delivery Complete` status for service purchase orders. For this reason, SAP ERP or SAP S/4HANA does not update service purchase orders closed in SAP Ariba Procurement solutions with the status `Order Closed for Receiving`. Similarly, for service purchase orders that are closed in SAP Ariba Procurement solutions with the status `Order Closed for All Actions`, only the `Final Invoice` checkbox is checked in SAP ERP or SAP S/4HANA.
- Amount and quantity splits on limit line are not supported.

- Accounting splits based on funds are not supported.
- Changing accounting on limit line is not supported when you swap the GL and cost center within the splits.

Example

Split 1 has g1 and c1. After swapping, split 1 is changed to g2 and c2 and split 2 is changed to g1 and c1. This scenario is not supported.

- Total Landed Cost (TLC) on service requisition or service purchase order is not supported.
- Deleting the limit line during change purchase order or change purchase requisition is not supported.
- Purchase requisition can be deleted by clicking the **Delete** button. A copy of the deleted purchase requisition will be retained in SAP ERP or SAP S/4HANA. For more details, see [Scenarios for Validation Checks on Requisitions in the ERP System](#).
- Line text of child items, including comments, is not supported in service purchase order.
- When a service contract is referenced to a service purchase order, planned and unplanned service in a single purchase order item is not supported.
- When you use central contract management, contract item with service hierarchy in the change mode is not supported.
- For the Japanese Yen (JPY), South Korean Won (KRW), and Vietnamese Dong (VND) currencies, you can enter upto 11 digits for amount.
- Price-based quantity is not supported.

Spend Limits for Unplanned Items

- **No Limit** flag is not supported.
- For service requisitions and service orders, SAP Integration Suite, managed gateway for spend management and SAP Business Network maps the contract details of line items under the **Limits** tab.
- When a service purchase order is created with reference to a contract number and contract item, changing contract item reference at parent line item is not supported.
- If your site is enabled for budget checks within your buying solution, ensure that all the line items in the service requisition are associated with the same contract line item.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network 2006 (SP009) or lower versions does not support integration of **Contract limit** and **Other limit** fields in service sheets that are created in the SAP Ariba Procurement solutions.

Account Assignment Category U (*Unknown*)

SAP ERP or SAP S/4HANA

- Account assignment category *U* (*Unknown*) is supported only on service line items.
- Change in account assignment category after you create a service purchase order with the account assignment category *U* (*Unknown*) is not supported.
- Conversion of service entry sheet with split accounting to an invoice for a service purchase order with account assignment category *U* (*Unknown*) is not supported.

- Account assignment category *U* (*Unknown*) is not supported for:
 - Simple service
 - Budget check

SAP Ariba Procurement solutions

- You cannot create invoice for service purchase order with limits and account assignment category *U* (*Unknown*).
- Import of following from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions with account assignment category *U* (*Unknown*) is not supported:
 - Service entry sheets
 - ERP-initiated purchase requisitions and purchase orders

Support for SAP Fieldglass Integration with SAP Ariba Buying and Invoicing for Service Requisitions

The integration between SAP Ariba Buying and Invoicing, SAP Fieldglass, and SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network enables the creation of service requisitions based on Statements of Work (SOWs) and work orders.

When an SOW or a work order is updated in SAP Fieldglass, the corresponding service requisition is also updated in SAP Ariba Buying and Invoicing through SAP Integration Suite, managed gateway for spend management and SAP Business Network. However, the service purchase order reference is updated in SAP Fieldglass directly and not routed through SAP Integration Suite, managed gateway for spend management and SAP Business Network. Similarly, when an SOW or a work order is closed in SAP Fieldglass, the corresponding service purchase order is closed in SAP Ariba Buying and Invoicing directly.

Prerequisites and Restrictions

Prerequisites

- Configure the test environment host names for SAP Fieldglass tenants to connect to, when testing the SAP Fieldglass integration with SAP Ariba Buying and Invoicing through SAP Integration Suite, managed gateway for spend management and SAP Business Network for routing service requisitions. The test environment host names can be configured on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. The production environment host names are preconfigured. For information, see [Managing Endpoints](#).

Restrictions

- The U (Unknown) account assignment category for service items isn't supported.
- Only percentage split accounting type is supported.
- As purchase requisitions are non-editable in SAP Ariba Buying and Invoicing, cancellation of service requisitions isn't supported.
- The following scenarios aren't supported:
 - Service requisitions containing hierarchical items
 - Service requisitions with attachments

Integration to Support Plant Information in Requisitions and Purchase Orders

This feature enables the integration of purchase requisitions and purchase orders that contain plant information sent from SAP Ariba Procurement solutions to SAP ERP.

The plant information helps identify the address of the site that purchases the materials. It also helps include the details such as the warehouse, inventory, and manufacturing capacity.

- To use plant information for line items in purchase requisitions and purchase orders, you must set the `Application.Procure.AllowAdhocShipToAddress` parameter to `false` in SAP Ariba Procurement solutions.

The following table describes the behavior of purchase requisitions and purchase orders that contain the `SAPPlant Entity` field:

Transaction	Behavior
Purchase requisition	SAP Integration Suite, managed gateway for spend management and SAP Business Network maps the <code>UniqueName</code> field in the <code>SAPPlant Cluster Root</code> field of the purchase requisitions to the <code>plant</code> field in SAP ERP.
Purchase order	SAP Integration Suite, managed gateway for spend management and SAP Business Network maps the <code>UniqueName</code> field in the <code>SAPPlant Cluster Root</code> field of purchase orders to the <code>plant</code> field in SAP ERP.

- If SAP Ariba Procurement solutions store the plant information in the `ShipTo` address field, the `Application.Procure.AllowAdhocShipToAddress` parameter must be set to `true`. In SAP Ariba Procurement solutions, you can enter the address manually for the purchase requisition or purchase order.

The following table describes the behavior of purchase requisitions and purchase orders that do not contain the SAP Plant Entity field:

Transaction	Behavior
Purchase requisition	SAP Integration Suite, managed gateway for spend management and SAP Business Network maps the UniqueName field in the ShipTo field of purchase requisitions to the plant field in SAP ERP.
Purchase order	SAP Integration Suite, managed gateway for spend management and SAP Business Network maps the UniqueName field in the ShipTo field of purchase orders to the plant field in SAP ERP.

- If the plant address is provided only at the header level of purchase requisitions or purchase orders, it is used in the ShipTo address field irrespective of the Application.Procure.AllowAdhocShipToAddress parameter.

Prerequisites

This section describes the prerequisites for this feature.

- SAP Ariba Procurement solutions must support the plant information master data and incorporate it in all relevant transactions.
- The plant information master data must be imported to SAP Ariba Procurement solutions.

Goods Receipt

A receipt is an acknowledgment of the goods that have arrived. The receiving process starts when an order has been sent to a supplier and the supplier ships goods in exchange. When the shipment arrives, the person who receives those items, submits a receipt to acknowledge that the items have indeed arrived. SAP Ariba provided integration code integrates receipts as goods receipts with Movement Type as 101.

Create a negative receipt in the SAP Ariba Procurement solutions to reverse some received quantity as a result of incorrect shipment or manual errors. SAP Ariba provided integration code integrates negative receipts as goods receipts with Movement Type as 102.

Exporting Amount-Based Receipts

The SAP Ariba Procurement solutions allow you to receive based on quantity or amount.

For amount-based receipts, the SAP Ariba integration code maps the amount to the quantity in SAP, and sets the price to 1. For example, if the amount of the receipt in the SAP Ariba Procurement solutions system is \$95, it is exported to SAP as a receipt with a quantity of 95 and with a price of \$1.

Prerequisite

- Maintain the parameters for goods receipt. For more information, see [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- To create receipts on the SAP ERP system and send them to SAP Ariba Procurement solutions, enable the task, *Import Receipts from an External Application Asynchronously*.
To stop receipts from being sent from the SAP Ariba Procurement solutions to the SAP ERP system, disable the following tasks in the section, *Integration Manager > Managed Gateway for Spend&Network* on the Manage Managed Gateway for Spend&Network tasks page:
 - *Export Receipts Asynchronously*
 - *Import Receipt Status Asynchronously*

When you disable these tasks, SAP Ariba Procurement solutions creates the receipt but does not send it to the SAP ERP system.

ⓘ Note

By default, when you run the integration event tasks to create receipts on the SAP Ariba Procurement solutions system, the receipt that is created on the SAP Ariba Procurement solutions system is also created again on the SAP ERP system. This leads to the duplication of the same receipt on both the SAP Ariba Procurement solutions and SAP ERP systems.

→ Remember

SAP Ariba recommends that you enable the creation of receipts only on one system, the SAP ERP or SAP Ariba Procurement solutions system.

- To stop sending receipts that you create on the SAP Ariba Procurement solutions to the SAP ERP system, ensure that the parameter, `Application.Procure.UseReceiptIntegration` is set to `No`. To disable this parameter, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.

Limitations

- In a receipt, if you have both accepted quantity and rejected quantity, only accepted quantity is integrated with the SAP ERP system. All rejected quantities are ignored.
- For the Japanese Yen (JPY), South Korean Won (KRW), and Vietnamese Dong (VND) currencies, you can enter upto 11 digits for amount.

Subcontractor Information in Goods Receipts

Buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network can integrate goods receipts that contain subcontractor information from the buying solutions from SAP Ariba to SAP ERP or SAP S/4HANA.

Businesses in some regions are required to categorize their suppliers as subcontractors to ensure timely payment of the material orders placed with such suppliers. Buyers can add subcontracting information in goods receipts.

The subcontracting information is used during the invoicing process to calculate when payment is due. The due date is based on the delivery date of the items, ensuring timely payment to the subcontractor.

To integrate subcontractor information in receipts, buyers must create custom mappings in SAP Integration Suite, managed gateway for spend management and SAP Business Network. The **ReceiptExportRequest** document type now includes the **SubContractor** source field and the **DateOfDelivery** source field for which you can create custom mappings.

ⓘ Note

Currently, you cannot create custom mappings to integrate goods receipts from SAP ERP, or from SAP S/4HANA, to the buying solutions from SAP Ariba. For more information, contact SAP Ariba Support.

Prerequisites

- Your administrator must enable the following parameters in SAP Ariba Buying or SAP Ariba Buying and Invoicing:
 - **Identify purchase orders for subcontractors**
(`Application.Procure.EnableSupplierAsSubContractor`)
 - **Include subcontracting details in receipts**
(`Application.Procure.EnableSubcontractingForReceiving`)For more information about the parameters, see [Identify purchase orders for subcontractors](#) and [Include subcontracting details in receipts](#) in [Intelligent Configuration Manager Parameters Reference](#).
- The supplier master data (`SupplierConsolidated.csv` file) must be uploaded into SAP ERP or SAP S/4HANA with a field that indicates whether a supplier is a subcontractor. You can add a custom field and populate its value by implementing BAdls. The field name must be set as `SubContractor` and the field value must be set to one of the following:
 - 1: If the supplier is a subcontractor
 - -1: If the supplier is not a subcontractor
 - 0 or null value: If the subcontractor value is not specifiedFor information on implementing BAdls, see [Implementing BAdl for Master Data Export](#).

Advance Payment

This transaction enables buyers to make advance payments for a purchase order to a supplier. Suppliers can use these advance payments to procure raw material or hire resources to process the orders. Buyers can adjust the advance payments against the invoices received for a purchase order.

SAP Ariba Procurement solutions exports fully approved advance payment request documents to the SAP ERP to process the payments. The SAP ERP sends a confirmation to SAP Ariba Procurement solutions when the advance payment is successfully processed. The advance payment amount can be adjusted against the invoice during invoice reconciliation.

Prerequisites

- Implement the following SAP Notes:
 - Note number [2274732](#) - Incorrect document status when posting noted items with BAPI_ACC_DOCUMENT_POST.
 - Note number [2499765](#) if you are using SAP S/4HANA - Reversal of down payment request using BAPI_BAPI_ACC_DOCUMENT_REV_POST not possible due to message 'Reversal in component General Ledger not possible'.
 - Note number [2722719](#) - Set the format of the Date fields on the create and cancel interfaces of Advance Payment. Implement this note if you are an SAP Integration Suite, managed gateway for spend management and SAP Business Network customer using ARBCI1 100: SP 0003, ARBCI2 100: SP 0003, ARBCI1 10S: SP 0003, or ARBCI210S: SP 0003.
- If the SAP Note: [2719693](#) is applied, it is mandatory to add the tax code in the line item before posting the advance payment request.
- Enable the **Alt.Posting Date** flag to post advance payment cancelation with a posting date different than the actual posting date. Navigate to the following SPRO node to configure the reversal reasons and allow an alternate posting date: ► **Financial Accounting > Accounts receivables and Accounts Payable > Business Transactions > Adjustment Posting/Reversal > Define Reasons for reversal** ▶.
- Enable the following Asynchronous Integration events in SAP Ariba Procurement solutions:

Advance Payment Export Advance Payments Asynchronously

Import Advance Payment Status Asynchronously

Cancel Advance Payment Export Cancel Advance Payments Asynchronously

Import Cancel Advance Payment Status Asynchronously

- Enable the following parameters in SAP Ariba Procurement solutions:
 - Application.Settlement.EnableAdvancePayment
 - Application.Settlement.TransactionPush.AdvancePayment.Enabled
 - Application.Messaging.Channels.Util.UseAMLDDefinedFormatter - Enable this parameter if you are an SAP Integration Suite, managed gateway for spend management and SAP Business Network customer using one of the following support packages:
 - ARBCI1 100: SP 0001, ARBCI2 100: SP 0001, ARBCI1 10S: SP 0001, ARBCI2 10S: SP 0001
 - ARBCI1 100: SP 0002, ARBCI2 100: SP 0002, ARBCI1 10S: SP 0002, ARBCI2 10S: SP 0002

ⓘ Note

Specify **Yes** for the parameter to display date without time zone. Specify **No** to display date with time zone.

Limitations

SAP ERP

SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Overview Guide

[Transactions for SAP Ariba Procurement solutions](#)

- Only purchase order based advance payments are supported.
 - SAP ERP supports advance payments only at the line level although SAP Ariba Procurement solutions supports advance payments at both the header and line levels.
 - The clearing document created as a part of invoice adjustment is not shown on the **Follow-On Documents** tab. This clearing document can be seen under the **Purchase Order History** tab.
 - SAP ERP does not automatically clear the Down Payment and Clearing Advance payment documents. When you post the down payments for a purchase order item using the transaction code, MIRO, 'Enter Incoming Invoice' to enter an invoice with a reference to the purchase order, SAP ERP does not clear the down payment. When an invoice is created in SAP Ariba Procurement solutions and the advance payment is adjusted, then SAP ERP creates a vendor invoice along with the advance payment clearing document. All these three documents, down payment, clearing advance payment, and invoice are seen in the Open status in the vendor account.
- Ensure that you clear the down payments, clearing advance payment documents, and invoice manually. To clear manually, use one of the following:

- Transaction code, F-44 or FB1K
- Run the SAPF124(E) or use the transaction code F.13

For more information, see the [SAP Note 1622433 - FAQ: Down payment clearing as of Release ERP 6.0 EhP4](#).

SAP Ariba Procurement solutions

- An advance payment referencing multiple purchase orders is not supported.
- Only amount-based advance payment requests are supported.
- Advance payment requests or advance payment remittances are not supported for line items with split accounting.
- SAP Ariba Procurement solutions does not support the Account assignment category U (Unknown).
- For the Japanese Yen (JPY), South Korean Won (KRW), and Vietnamese Dong (VND) currencies, you can enter upto 11 digits for amount.

Service Sheet

Suppliers create service sheets to describe the service they are offering. Service sheets contain service lines. Suppliers can create a service sheet for one or more service lines on an associated service order and send it to SAP ERP.

Buyers on the SAP Ariba Procurement solutions can receive:

- Service sheets without hierarchy
- Service sheets containing planned and unplanned service lines
- Service sheets with accounting splits on single and multiple service lines-both on parent line (split in the **Limits** tab) and child line

SAP ERP sends:

1. Either a service sheet number to the SAP Ariba Procurement solutions when the service sheet is successfully created or an error response for a failure.
2. A response (approved, rejected, or processing) to the SAP Ariba Procurement solutions to update the service sheet status, when the buyer accepts, rejects, or revokes the service sheet in SAP ERP.

3. Declined status is sent as response if the service sheet fails due to some validation errors on SAP ERP.

Integration to Support Service Sheets Canceled in SAP Ariba Procurement Solutions

This feature enables buyers to integrate the following with SAP ERP or SAP S/4 HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- Service sheets that the buyers have canceled in SAP Ariba Procurement solutions on behalf of the supplier.
- Service sheets that the suppliers have canceled in SAP Business Network and sent to the buyer's SAP ERP through SAP Ariba Procurement solutions.
- Service sheets that have the status **Processed** in SAP Ariba Procurement solutions on which the buyers have performed the **Force Reject** operation.

For more information, see [Service Sheet \[page 208\]](#)

Prerequisites

- Enable the following Asynchronous Integration events:
 - Export Service Sheets Asynchronously
 - Import Service Sheets Response Asynchronously
- Enable the following parameters in SAP Ariba Procurement solutions:
 - Application.ServiceSheet.AllowNonCatalogItem
 - Application.ServiceSheet.EnableERPIntegration
 - Application.ServiceSheet.ServiceSheetExternalApprovalEnabled

Limitations

- Service sheet cannot use a currency different than the currency used in the associated purchase order.
- SAP Ariba Procurement solutions does not support the following for service sheets:
 - Service sheets with hierarchy
 - Attachments
 - Comments
 - Modifying Account Assignment Category during service sheet creation
 - Negative values. If you are a buyer integrated with SAP Business Network, SAP Ariba Procurement solutions, and SAP ERP, your suppliers on SAP Business Network can edit the service sheets and create correction service sheets and send it to SAP ERP. However, these service sheets containing negative values fail on SAP ERP. SAP ERP does not support negative values added to service sheets.
- For the Japanese Yen (JPY), South Korean Won (KRW), and Vietnamese Dong (VND) currencies, you can enter up to 11 digits for amount.
- Price-based quantity is not supported for the service entry sheets.

Invoice

Suppliers can send invoices on SAP Business Network to buyers on SAP Ariba Procurement solutions, or buyers can directly create invoices within SAP Ariba Procurement solutions. After reconciliation, these invoices are exported / sent to SAP ERP or SAP S/4HANA system.

The following types of invoices are supported:

- PO-based invoice
- Non-PO invoice
- Service invoice
- Line level credit memo
- Header level credit memo

PO-based invoice

A PO invoice is used to make a payment to a supplier when a purchase order is issued.

Non-PO invoice

A non-PO invoice is used to make a payment to a supplier when a purchase order is not issued.

SAP ERP buyers integrated with SAP Ariba Procurement solutions and SAP Integration Suite, managed gateway for spend management and SAP Business Network can receive and process credit and debit memos for price adjustments against invoices created on SAP Ariba Procurement solutions.

SAP ERP buyers can receive a credit or debit memo for any increase or decrease in prices for line items against invoices from SAP Ariba Procurement solutions and process the price adjustments as subsequent credit and debit memos on the SAP ERP system without having to cancel the invoice. The price adjustments can include changes to taxes, shipping, charges, and discounts also.

Service invoice

Suppliers on SAP Business Network create service invoices for the approved service sheets and send them to the SAP Ariba Procurement solutions for reconciliation and approval. After approval, the service invoices are sent to SAP ERP.

If the service purchase order was created with the simplified procurement of services capability, suppliers create the invoices directly from the purchase order.

Line level credit memo

A line level credit memo is an invoice created as a refund at a line level.

Header level credit memo

Header level credit memo is an invoice created as a refund at a header level.

Invoice supports the following discount scenarios:

- Discounts entered at the header and line-level on a PO-based invoice
- Discounts entered at header and line-level on a non-PO based invoice
- Discounts entered at header and line on a line-level credit memo

① Note

Since SAP ERP or SAP S/4HANA systems do not have a provision to send the discount information, the discount amount is adjusted at the line level.

Enabling Support for Shipping and Handling Charges for Invoices

Export of shipping and handling charges to SAP ERP and SAP S/4HANA is supported in the following cases:

- Shipping and handling charges with taxes added as service lines is directly posted to General Ledger (G/L) accounts.
- Shipping and handling charges added without any tax in the Invoice Detail Summary only is posted as unplanned delivery cost.

Integrating Taxes and Charges

This section describes the behavior in SAP ERP for invoices with taxes, charges, and discounts received from the SAP Ariba Procurement solutions:

The following example describes the behavior of SAP ERP when invoices received from SAP Ariba Procurement solutions contains a:

Header with a withholding tax	From SAP Ariba Procurement solutions: Total amount = USD 100 has a header with a withholding tax WT1 = USD 5. Result in SAP ERP: Withholding tax = USD 5 along with the Tax Code and Tax Type is displayed in the Withholding Tax tab of the invoice transaction.
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Attachments with Invoice

File attachments are useful when suppliers need to attach supporting documentation with their invoices. Using this feature the attachments are sent to SAP ERP as part of the invoice integration messages. In SAP ERP, they are processed as header level using the SAP Generic Object Services (GOS) for invoices.

① Note

SAP ERP truncates file name of attachments exceeding 50 characters (inclusive of extension). SAP Integration Suite, managed gateway for spend management and SAP Business Network supports spaces in the file name of the attachment.

Document Type for Creating Invoices

By default, the SAP Ariba Procurement solutions uses a custom document type `RE` for creating invoices. If you want to use any other document type, you need to configure cross-reference parameter in SAP Integration Suite, managed gateway for spend management and SAP Business Network for the document type to be used.

If this document type does not exist in the SAP ERP standard configuration, you need to create this document type in SAP ERP.

Duplicate Invoice Checking

Duplicate invoices are detected when there is an existing invoice with the same invoice details (supplier invoice number and vendor).

At times, SAP Ariba Procurement solutions would not receive a response to the invoice sent to SAP ERP. A scheduled job on SAP Ariba Procurement solutions checks for the invoices that did not receive a response and pushes the invoice details to SAP ERP. If an invoice with the same invoice details is available on SAP ERP, a response is triggered to SAP Ariba Procurement solutions. The scheduled job thus prevents a duplicate invoice from getting posted.

Duplicate Invoice Functionality

Duplicate invoices are detected when there was an existing invoice with the same invoice details (supplier invoice number and vendor).

Currently, duplicate invoices are not supported. Instead, you can implement the `DUPLICATE_INVOICE_CHECK` method to control duplicate invoices. This method verifies invoices with the same invoice number across different fiscal years or canceled invoices with the same invoice number within the same fiscal year. For more information on implementing this method, please see [SAP Note 3196366](#).

Special Charge Postings

If the SAP ERP configuration is set to `Distribute among invoice line items` for unplanned delivery costs, shipping and special handling charges would be distributed proportionally among the invoice line items. If SAP ERP configuration is not set, the charges are posted to a separate G/L.

Jurisdiction Codes

The SAP Ariba Procurement solutions does not maintain a jurisdiction code. Jurisdiction code comes from the plant master and is required for tax calculations and tax postings in SAP ERP.

Prerequisites

To process invoices

Ensure the following in SAP ERP:

1. Tax Data is populated (includes TaxCodePull, TaxCodeLookup, TaxRateLookupByTaxCode).
2. Payment Term and Method are loaded.
3. Maintain ARBCIG_WHT_TYPE table to specify the withholding tax type in the SAP Ariba Procurement solutions. To support withholding tax in invoices, you must configure and enable the withholding tax at the vendor level in SAP ERP. The tax code configuration must be in sync between the SAP Ariba Procurement solutions and SAP ERP.

Ensure the following in SAP Ariba Procurement solutions:

1. Enable the Application.Invoicing.UseTLCTaxEngine parameter.
2. Enable the Application.Invoicing.UseEnhancedInvoice parameter to adjust the advance payment in Invoice.
3. Apply the **Export Payment Requests Asynchronously** data definition, if you are an SAP Integration Suite, managed gateway for spend management and SAP Business Network customer using ARBCI1 100: SP 0004, ARBCI2 100: SP 0004, ARBCI1 10S: SP 0004, or ARBCI210S: SP 0004.
4. Enable the following Asynchronous Integration events:
 - Export Payment Requests Asynchronously
 - Import Payment Requests Status Asynchronously
5. Enable the Application.Settlement.PaymentRequestSendMethodOption parameter to update the status of invoice reconciliation. To enable this parameter, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.
6. Configure the value of the Application.Procure.ERPAmountPrecision parameter to 2 to adjust the precision value of the amount in the invoice. This configuration ensures that the precision of the amount in the SAP Ariba Procurement solutions matches the precision of the amount in SAP ERP.

To export invoices with taxes on shipping and special handling charges to SAP ERP

1. Implement the SAP Note [1760355](#) - EDI/BAPI: Unplanned delivery costs: Jurisdiction code to avoid the following error message: Tax code does not exist for jurisdiction code,
2. Enable the parameter Application.Invoicing.EnableTaxesOnShippingAndHandlingItems.

To send attachments:

- Ensure that the following parameters are enabled in SAP Ariba Procurement solutions:
 - Application.Procure.AllowAttachmentToERP
 - Application.Invoicing.AllowInvoiceAttachmentMetadataToERP
 - Application.Invoicing.AllowInvoiceAttachmentToERP
 - For Web Services-based integrations,
 - Application.Messaging.Channels.WS.DeleteAttachmentsTempDirectory, which ensures that the temporary directory storing exported attachments is deleted after transactions are sent to the ERP system. This avoids errors that occur if a transaction is re-sent after an attachment has been removed.
 - Application.Messaging.Channels.WS.EnableThreadLocalFolderName (set by SAP Ariba Support), ensures that each system operation or thread has a unique folder name. This prevents errors caused by simultaneous operations.

- To control the file formats that can be attached to invoices in the SAP Ariba Procurement solutions use the parameter `Application.Approvable.AllowedAttachmentExtensions`. File formats that are not specified cannot be used as attachments. This parameter is useful for restricting file formats (such as EXE files) that might violate company security policies.
- Ensure the following in SAP ERP:
 - Implement SAP Note [1476350](#) - GOS: Attachment list does not display all linked objects to view attachments for FI invoices.

To send price adjustments in credit and debit memos

- Ensure the following in SAP Ariba Procurement solutions
 - Enable the `Application.Invoicing.EnableLineItemPriceAdjustmentInvoices` parameter to send price adjustments at the line level for debit and credit memos. To enable this parameter, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request. SAP Ariba configures the parameter to enable this feature on your site.
 - Accept the mapping changes for the `ExportPaymentRequest` data definition for web services on your SAP Ariba Procurement solutions system.
- Ensure the following in SAP Integration Suite, managed gateway for spend management and SAP Business Network
 - Maintain the following parameters for the `PaymentExportRequest` document type for invoices:
 - SAP Subsequent Credit Doc Type
 - SAP Subsequent Debit Doc Type

Note

SAP Ariba recommends that you maintain these parameters for the `PaymentExportRequest` document type. However, if you do not maintain these parameters, SAP Integration Suite, managed gateway for spend management and SAP Business Network uses the SAP Document Type.

Restrictions and Limitations

- Invoices are sent to the SAP ERP or SAP S/4HANA after reconciliation in the SAP Ariba Procurement solutions. Parked invoices are not supported.
- In a combo realm scenario, wherein a purchase order and goods receipt are created in SAP ERP but an invoice is created in SAP Ariba Buying and Invoicing, the invoice is rejected during invoice reconciliation if the currency on the invoice is different than the currency on the purchase order. The `Invoice Currency Mismatch` exception occurs and that invoice is not sent to SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Goods receipt based invoices are not supported.
- The SAP Ariba Procurement solutions send Tax Code to SAP ERP or SAP S/4HANA. During invoice reconciliation, if you accept any tax variances, it can fail in the SAP ERP or SAP S/4HANA system based on the SAP ERP or SAP S/4HANA system setup.
- While creating an invoice for a PO with two line items, retain the same accounting information combination for each line item as specified while creating the PO.
- If an invoice contains a mix of both zero and non-zero amount line items, invoices are created only for the non-zero amount line items.

- PO based and non-PO based invoices are integrated only to MM module of SAP ERP or SAP S/4HANA. Invoice integration to FI module is not supported.
- There is no default contract integration with SAP ERP or SAP S/4HANA. Therefore, contract reference information is not sent to SAP ERP or SAP S/4HANA along with non-PO invoice integration. To send contract reference information to SAP ERP or SAP S/4HANA, customers have to do customizations.
- You cannot create service invoices for service orders. You can create service invoices only for service sheets.
- Conversion of service entry sheet with split accounting to an invoice for a service purchase order with account assignment category *U* is not supported.
- Withholding tax with split accounting is not supported at the header level.
- Withholding tax is not supported for line items.
- Split in header level discount is not supported.
- Attachments at the line level are not supported for invoices.
- Comments are not supported for invoices.
- The total attachment size cannot exceed 100 MB.
- Attachment names with Chinese or Japanese characters are not supported.
- Attachment names with special characters (excluding the + symbol) are not supported.
- SAP ERP or SAP S/4HANA supports maximum 50 characters in line item text for invoice. If the length of the line item text imported from SAP Ariba Procurement solutions exceeds 50 characters, SAP ERP or SAP S/4HANA would truncate the text.

SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the following while processing credit and debit memos sent from SAP Ariba Procurement solutions:

- Changes to quantities in line items against invoices
- Parked invoices from SAP Ariba Procurement solutions. However, SAP Integration Suite, managed gateway for spend management and SAP Business Network supports processing credit and debit memos against parked invoices from SAP Business Network.
- For the Japanese Yen (JPY), South Korean Won (KRW), and Vietnamese Dong (VND) currencies, you can enter upto 11 digits for amount.
- Integration of invoices for multiple purchase orders with discounts is not supported. Such invoices, which are sent from SAP Ariba Buying and Invoicing, fail in SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Non-PO (FI) Invoices

Buyers can enable integration of non-PO (FI) invoices from SAP Ariba Procurement solutions to SAP ERP using SAP Integration Suite, managed gateway for spend management and SAP Business Network. The buyer must enable the **SAP Non PO FI Post Indicator** on SAP Integration Suite, managed gateway for spend management and SAP Business Network to store the transaction details in the FI-based tables in SAP ERP.

The feature supports:

- Multiline invoices
- Multiple withholding taxes at header level
- Non-PO based asset posting
- Internal order, WBS element, and cost center
- Credit memo at header and line level

- Discounts at header and line level
- Tax at header and line levels
- Shipping and handling charges with or without taxes
- Multiple attachments with different language title and content at header level. The following languages are supported: English and German.

Prerequisites and Restrictions

Prerequisites

Ensure the following in SAP ERP:

- Maintain the following parameters:
 - P2P_INVOICE_ENABLED - To enable or disable the SAP Ariba provided enhancements for invoice.
 - ASSET_TR_TYP_FI_NONPO - Configure the asset transaction type if you want to use the asset accounting assignment while posting FI-based non-PO Invoice.
- For more information, see [Maintaining the Parameters for Non-PO \(FI\) Invoices in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Do not configure the **External number** option in SAP ERP. FI invoices are stored with the internal number range.
 - Configure the cross-reference parameters on SAP Integration Suite, managed gateway for spend management and SAP Business Network and enable the non-PO FI invoice indicator. For more information, see [Setting Up Cross References for SAP Ariba Procurement Solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
 - Implement the customer exit to support asset posting and withholding tax in non-PO (FI) invoices. For more information, see [Implementing the Customer Exit for Non-PO \(FI\) Invoices in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Ensure the following in SAP Ariba Procurement solutions

- Configure the value of the Application.Procure.ERPAmountPrecision parameter to 2 to adjust the precision value of the amount in the invoice. This configuration ensures that the precision of the amount in the SAP Ariba Procurement solutions matches the precision of the amount in SAP ERP.

Restrictions

- Split in header level discount is not supported.
- Non-PO invoices with non-decimal currency types are not supported.
- Comments are not supported
- The percentage of tax calculated on SAP ERP should match the tax amount in SAP Ariba Procurement solutions.
- Tax-relevant posting in a company code in which the line-by-line tax calculation is active is not supported. For more information, see the SAP Note: [2011553](#).
- Although tax code with dual tax rates is supported, both the tax rates must be either with a G/L account or with a non-GL account. Dual tax rates with both G/L account and non-GL account together are not supported.
- The withholding tax is not supported at the line item level.
- SAP Ariba Procurement solutions does not provide G/L account for asset lines. Therefore, the G/L account for asset lines is derived from the table T095_ACI based on chart of accounts.

If the table T095_AC1 also does not include G/L account for asset lines, then the G/L account for asset lines is derived from the table T095 based on the chart of accounts, account determination, and real depreciation area. The real depreciation area is always 01.

Tax Withholding in Non-PO Invoices

Buyers using SAP Ariba Procurement solutions integrated with SAP ERP using SAP Integration Suite, managed gateway for spend management and SAP Business Network can add withholding tax data at the header level of a non-PO invoice. The feature is available only for buyers who use SAP Ariba Supplier Management solutions. Withholding tax is paid by the buyer to the tax authorities on behalf of the supplier. The supplier master data import to SAP Ariba Supplier Management solutions synchronizes the tax data to SAP Ariba Procurement solutions. When you, as a buyer, create a non-PO invoice in SAP Ariba Procurement solutions, the applicable tax for the supplier based on the company code and the remittance location is applied to the non-PO invoice and sent to SAP ERP.

As a buying organization, consider the following points when applying withholding taxes on a non-PO invoice:

- The remittance value is calculated by deducting the withholding tax amount from the gross amount of the invoice.
- The withholding taxes depend on the combination of multiple tax codes and tax types based on the supplier's company code and remittance location.
- SAP ERP does not allow applying the same withholding tax type more than once to the same vendor in a non-PO invoice, but SAP ERP allows applying the same withholding tax code more than once to the same vendor.
- The withholding taxes applied at the header level apply to all the line items in the invoice.
- If multiple tax codes and tax types are applied on the invoice, the document reflects a consolidated tax amount and does not provide the breakdown of the different taxes to the user.

Prerequisites and Restrictions

Prerequisites

Ensure that the following requirements are met:

- SAP Ariba Procurement solutions is integrated with SAP ERP using SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- SAP Ariba Procurement solutions is integrated with SAP Ariba Supplier Management solutions.
- Supplier master data is synchronized between the SAP Ariba Supplier Management solutions and SAP Ariba Procurement solutions.
- Configure the following on SAP Ariba Procurement solutions:
 - Ensure that SAP Ariba Procurement solutions is configured to apply withholding taxes on invoice.
 - Enable the **Default withholding taxes from remittance location in invoice** parameter.
 - Ensure that the withholding tax code, withholding type, and the tax component are available in SAP Ariba Procurement solutions before synchronizing the supplier master data along with the withholding tax details from SAP Ariba Supplier Management solutions.
 - Apply the **Export Payment Requests Asynchronously** data definition.

- Configure the following on SAP ERP:
 - The **Use internal format for ERP vendor on SM** parameter on SAP ERP is enabled.
 - Ensure that the withholding tax code, withholding type, and the tax component available in SAP Ariba Procurement solutions are available in SAP ERP.

Restrictions

- The feature is not available for buyers who are not using SAP Ariba Supplier Management solutions.
- The feature is available only at the header level of non-PO invoices.
- SAP ERP does not allow the same withholding tax type more than once in a non-PO invoice for a vendor.

Non-PO Invoices for One-Time Vendors

Buyers sometimes make purchases from suppliers who are not in their regular list of suppliers. These suppliers are called one-time vendors because business with these suppliers is conducted once in a while. For example,

- A buyer might purchase items from a local supplier when the regular supplier cannot deliver the goods on time.
- A department manager might purchase a few stationery items from a local store.

When a one-time vendor sends the invoice to a buyer for a purchase, the buyer can create a non-PO invoice on SAP Ariba Procurement solutions and enter the supplier details directly on the non-PO invoice.

A one-time vendor record is initially created on SAP ERP or SAP S/4HANA. A one-time vendor record represents an account from which the one-time vendor invoices are paid, and usually does not contain any bank or financial information. This record is exported to SAP Ariba Procurement solutions as master data export. On SAP Ariba Procurement solutions, search the common suppliers list for the one-time vendor record imported from SAP ERP. Edit the supplier and mark as one-time vendor. While creating a non-PO invoice on SAP Ariba Procurement solutions, the buyer can select the one-time vendor option. The option displays extra fields which let the buyer enter the supplier name, address, and bank details. The supplier information and bank details are used for payments and remittances as well as for reporting, and the invoice is registered against the one-time vendor record. The invoice can then be routed for approval if necessary.

The following table shows the supported length of the fields mapped between SAP ERP or SAP S/4HANA and SAP Ariba Procurement solutions to support integration for one-time vendors:

Field	Description	Field Length
NAME	Fields to specify the full name of the vendor.	35
NAME_2	Fields to specify the full name of the vendor.	35
NAME_3	Fields to specify the full name of the vendor.	35
NAME_4	Fields to specify the full name of the vendor.	35
POSTL_CODE	Specify the postal code.	10
CITY	Specify the city name.	35
COUNTRY	Specify the country/region code.	3

Field	Description	Field Length
STREET	Specify the address including street name.	35
BANK_ACCT	Specify the bank account number.	18
BANK_NO	Specify the bank number.	15
BANK_CTRY	Specify the country key for the bank.	3
REGION	Specify the state and province.	3

Prerequisites and Restrictions

This section describes the prerequisites and the limitations to support non-PO invoices for one-time vendors.

Prerequisites

Following are the prerequisites for this feature:

- Do the following on SAP ERP:
 - Create a record for one-time vendor.
 - Export the vendor record to SAP Ariba Procurement solutions using the master data export program.
 - Ensure that the bank account details for the vendor exist in SAP ERP.
 - Ensure the following entered at the time of creation of non-PO invoice are available in SAP ERP:
 - Bank account number
 - Bank number
 - Region code pertaining to Ship from, Remit to, and bank address
- Do the following on SAP Ariba Procurement solutions:
 - Enable the following integration events:
 - **Export Payment Requests Asynchronously**
 - **Import Payment Requests Status Asynchronously**
 - Enable the **Invoicing** feature available under **Feature Availability Status**. This feature allows buyers to create non-PO invoices for one time vendors who are not in SAP Business Network.
 - Enable the **Application.Invoicing.AllowOneTimeVendorInvoices** parameter.
 - Ensure that the buyers have access to **Edit One Time Vendor Invoice Payment Information** group.
 - Search and edit the one-time vendor record exported from SAP ERP, and mark it as one-time vendor.
 - Select the one-time vendor option when you create the non-PO invoice.
- Implement the SAP note: [1854280](#) to support international payment methods such as IBAN and SWIFT.

Restrictions

Following are the limitations for this feature:

- If the length of any field value entered in SAP Ariba Procurement solutions exceeds the length supported in SAP ERP, the length is truncated before saving the value on SAP ERP.

External Tax Engines

The tax elements in SAP ERP or SAP S/4HANA are enhanced to allow transfer of tax-related information sent from external tax engines integrated with SAP Ariba Procurement solutions. The tax information is sent to the ERP system through SAP Integration Suite, managed gateway for spend management and SAP Business Network. The PaymentTaxExport structure is enhanced to include the extra tax information sent from the external tax applications.

SAP Integration Suite, managed gateway for spend management and SAP Business Network currently supports the Vertex tax engine.

ⓘ Note

After the tax is approved or rejected in your SAP Ariba solution, the invoice tax details are passed to ERP in the `PaymentExportRequest` file.

The feature supports all the scenarios of tax accrual: full accrual, partial accrual, and no accrual. When a buyer creates a non-PO invoice (with or without tax) and Vertex proposes a tax on the line items, upon acceptance on SAP Ariba Procurement solutions the invoice is created in ERP with an additional line for accrual.

Prerequisites and Restrictions

Prerequisites

SAP Ariba Procurement solutions

- Integrate SAP Ariba Procurement solutions with the Vertex tax engine using the third-party tax calculation feature. With third-party tax calculation, APIs transfer data between the procurement solution and the third-party tax engine.
- Enable the following parameters:
 - Application.Tax.Enabled
 - Application.Procure.EnableTaxCalculationInExternalSystems
 - Application.Procure EnhancedTaxCalculationInExternalSystems
 - Application.Invoicing.UseTLCTaxEngine
- Enable the following events:
 - Export Document Data for External Tax Calculation
 - Import External Tax Calculation Providers

SAP ERP

- Ensure that the **Condition Type** maintained on SAP ERP for different tax types is maintained in the **Account Instruction** field in the Vertex tax engine.
- Ensure that the tax code components in SAP ERP match the tax code components proposed by Vertex.
- Maintain the tax jurisdiction code relation between ERP and the external tax engine if tax jurisdictions are defined for your location. For more information, [Mapping the Tax Jurisdiction Codes Between ERP and External Tax Engine in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Restrictions

- Tax procedures that are configured for external tax calculation are not supported.
- Accrual amount is not displayed in the purchase order-based invoice. Buyers on EHP8 and above or any supported version of SAP S/4HANA can implement the ARBCIG_INVCREATE BAdI and use custom logic to display the accrual amount in purchase order-based invoice.
- When an external tax engine is integrated with SAP Ariba Buying and Invoicing, split accounting is not supported.
- Direct integration of an external tax engine with SAP ERP is not supported.
- Reverse taxes are not supported.

Goods Receipt-Based Invoice Verification in SAP Ariba Buying and Invoicing

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2111 (Q4 2021), you can integrate the delivery-based invoicing process. You can integrate multiple receipts created for a shipment and referenced in each invoice line.

You may want to create invoices for material based on the goods receipt rather than the purchase order. In goods receipt-based invoice verification, buyers can create invoices that reference single or multiple good receipts that you can integrate with your SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network. After successful integration, the purchase order, goods receipt, and the invoice must match.

As part of this integration, the master data export program has been enhanced to export the `GR-Based_Invoice Verif` flag from the buyer's SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing. For more information, see [Import Supplier Data \[page 43\]](#).

You can integrate ship notice ID and ERP receipt number for goods receipts. The following table explains the delivery note/ship notice ID in the outbound and inbound messages:

Note

In SAP ERP or SAP S/4HANA, the ship notice ID field can contain up to 16 characters. In SAP Ariba Buying and Invoicing, no upper limit is specified for the number of characters in the ship notice ID field.

Outbound Transaction	Inbound Transaction
<p>In SAP ERP or SAP S/4HANA, the delivery note in the goods receipt contains ship notice ID. After you export this to SAP Ariba Buying and Invoicing, the delivery note is displayed in ship notice ID.</p> <p> ⓘ Note</p> <p>As a prerequisite, you must maintain the <code>EXPORT_SHIPNOTICE_ID</code> parameter. For more information, see Maintaining Parameters to Export Goods Receipts in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide.</p>	<p>Ship notice ID is passed on to SAP ERP or SAP S/4HANA as part of goods receipt.</p> <p> ⓘ Note</p> <p>This integration applies to purchase orders, change purchase orders, and payment export also.</p> <p>For returning goods to suppliers (return goods receipt), ERP receipt number of the original goods receipt will be passed onto SAP ERP or SAP S/4HANA as part of the goods receipt.</p>

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2202 (Q1 2022), the integration of the goods receipt-based invoice verification feature has been enhanced by extending the support for manual and electronic invoices, allowing buyers to choose appropriate receipts during the invoice reconciliation process.

Partial matching of goods receipts (GRs) to invoices

Previously, SAP Ariba Buying and Invoicing did not support editing of the matched quantities when manually matching receipts to invoice lines. Now, users can edit the matched quantities in invoice reconciliation when manually matching the GR to invoice line items, rather than the system determining the matched quantities.

Here's an example:

1. Create a purchase order in SAP Ariba Buying and Invoicing with quantity set to 10.
2. Create two GRs as follows:
 - GR1 for quantity, 3
 - GR2 for quantity, 7
3. Create an invoice in SAP Ariba Buying and Invoicing with quantity set to 4.
Since there is a mismatch between the GR and invoice quantities, a *Receipt Quantity Variance* exception occurs.
4. Depending on your site's configuration, you might be able to edit matched quantities when manually matching receipts during invoice reconciliation. To do so, your administrator must enable this capability by setting the parameter `Allow edits to matched quantity in receipt matching` (`Application.Invoicing.AllowMatchedReceiptQuantityEdit`) in SAP Ariba Buying and Invoicing.

Mapping invoice to multiple GRs

SAP Ariba Buying and Invoicing provides as many lines in invoice reconciliation and payment export, as the number of GRs. Previously, for an invoice created in SAP Business Network, the invoice reconciliation, and payment export included only one line for multiple GRs. Now, as part of this feature, SAP Business Network and SAP Ariba Buying and Invoicing create as many lines in the invoice as the number of GRs (in the case of multiple GRs).

Here's an example:

1. Create a purchase order in SAP Ariba Buying and Invoicing with one line against a supplier for which goods receipt-based invoice verification is enabled.
2. Create two GRs based on the quantity in the purchase order.
3. Perform one of the following steps:
 - For manual invoice creation, create an invoice by choosing a quantity greater than GR quantity, manually in SAP Ariba Buying and Invoicing by selecting the respective purchase order to choose both the GRs.
 - For electronic invoice creation, submit an electronically generated invoice in SAP Business Network choosing a quantity such that there is a mismatch between the GR quantity and the invoice quantity. Since there is a mismatch between the GR and invoice quantities, a *Receipt Quantity Variance* exception occurs.
4. Open or edit the invoice reconciliation document.
5. On the *Exceptions* tab, choose *Manual Match to Receipts* from the *Action* menu.
6. In the *Available Receipts* table, to add all receipts at once, select the checkbox at the top of the table in the header row, then choose *Add to Matched*.
7. Depending on your site's configuration, you might be able to edit matched quantities when manually matching receipts during invoice reconciliation. To do so, your administrator must enable this capability by setting the parameter `Allow edits to matched quantity in receipt matching` (`Application.Invoicing.AllowMatchedReceiptQuantityEdit`) in SAP Ariba Buying and Invoicing.
8. When you've finished matching receipts to the invoice line, click *OK*.

The invoice reconciliation document includes two lines in the invoice based on the number of GRs.

Prerequisites

- Ensure that the goods receipt-based invoice verification feature is enabled in SAP Ariba Buying and Invoicing. To enable this feature, your administrator must enable the following parameters:
 - **Enable goods receipt-based invoice verification** (`Application.Procure.EnableGRBasedInvoice`)
 - `Application.Invoicing.PaymentAsyncEvent`A new parameter, `Application.Invoicing.PaymentAsyncEvent` has been created to allow users to specify the integration event to be used for exporting payment requests asynchronously through web services to an SAP connected system.
- Enable the following Asynchronous Integration events:
 - Export Payment Requests with Receipts Asynchronously
 - Import Status of Payment Requests with Receipts Asynchronously

Restrictions

The following are not supported:

- Unit price change on goods receipt in SAP ERP or SAP S/4HANA.
- Choosing additional receipts to adjust the total receipt quantity to match the invoice quantity.

- As part of this feature, all invoicing scenarios are supported in `PaymentExportRequest` and `PaymentExportv2Request` events. However, matching number of GR lines with invoicing lines scenario is supported only in the `PaymentExportv2Request` event.

Asset Management

[Integration to Support Management of Assets from SAP Ariba Procurement solutions \[page 306\]](#)

Integration to Support Management of Assets from SAP Ariba Procurement solutions

This feature provides integration between the asset management component on SAP ERP and SAP Ariba Procurement solutions using SAP Integration Suite, managed gateway for spend management and SAP Business Network. When buyers want to create a purchase requisition on SAP Ariba Procurement solutions for an asset that is not available, they can create an asset and submit a purchase requisition for it. To create an asset, it needs to be associated with a relevant asset class. Buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network can export the asset class master data from SAP ERP to SAP Ariba Procurement solutions. Full load export of master data is used to export asset class from SAP ERP.

After the asset is created and the purchase requisition is approved, buyers can create a purchase order for the asset.

Prerequisites

- Enable SAP Integration Suite, managed gateway for spend management and SAP Business Network on SAP Ariba Procurement solutions. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba Procurement solutions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide*.
- Enable the **Export Asset Requisition Asynchronously** integration event on SAP Ariba Procurement solutions.
- Enable the `Application.Procure.EnableAssetManagement` parameter on SAP Ariba Procurement solutions.
To enable the parameters on SAP Ariba Procurement solutions, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.
- Disable the `Application.Procure.AssetManagement.OpenAPIIntegration` parameter on SAP Ariba Procurement solutions.
- Create a dummy asset value on SAP ERP. For more information about creating a dummy asset value, see [Creating a Dummy Asset Value](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- Export asset and asset class master data to SAP Ariba Procurement solutions. For more information about exporting master data, see [Importing Master Data from SAP ERP to SAP Ariba Procurement Solutions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
- Enable the outbound **Response for Asset Requisition** web service. For more information about configuring interfaces to send messages between SAP ERP and SAP Ariba Procurement solutions, see [Configuring the](#)

[Connections to Send Messages](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

- Create an end-point of the web service required for asset related inbound transaction messages. For more information about creating end-point of the web service, see [Configuring the Connections to Send Messages](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

Limitations

- Only full load import is supported for asset class master data.
- Asset master data export from SAP ERP or SAP S/4HANA to SAP Ariba Procurement solutions is not supported for intelligent asset accounting (as a part of Universal Parallel Accounting).
- Split accounting is not allowed at the individual line level.
- SAP ERP allows only 99 assets to be associated with a purchase order line number.

[Supporting Management of Asset Using SAP Ariba Procurement solutions \[page 307\]](#)

Supporting Management of Asset Using SAP Ariba Procurement solutions

The following is the workflow to support the management of assets using SAP Ariba Procurement solutions:

1. Buyer administrator performs the following tasks on SAP ERP:
 - Creates a dummy asset value on SAP ERP.
 - Exports master data including asset class from SAP ERP to SAP Ariba Procurement solutions.
 - Connections are configured to send messages between SAP ERP and SAP Ariba Procurement solutions.
2. The following tasks are completed on SAP Ariba Procurement solutions:
 - A buyer creates and submits a requisition.
 - Asset manager approves the requisition and adds details to the asset line items. The approved requisition is sent to SAP ERP.
3. SAP ERP performs the following actions:
 - Creates asset master records based on the details on the requisition.
 - Assigns asset numbers to the line items and sends the information to SAP Ariba Procurement solutions.
4. SAP Ariba Procurement solutions performs the following tasks:
 - The line items in the requisition are updated with the asset numbers.
 - Changes the status of the requisition to **Approved** and creates a purchase order.

Stock Inventory

Unrestricted stock is the stock which is readily available for use. Buyers using SAP Integration Suite, managed gateway for spend management and SAP Business Network can check the unrestricted stock of a material on the catalog before placing an order on SAP Ariba Procurement solutions. When a buyer checks for the stock, the unrestricted stock information is fetched from the Inventory Management System (IMS) and displayed. A scheduled job on the IMS periodically checks the SAP ERP system for the unrestricted stock of a material at a storage location. SAP ERP updates the IMS with the requested stock details. The stock details are sent to IMS in batches defined by the batch size configured on SAP ERP.

① Note

The inventory details, including **Material Number**, **Material Group**, **Stock Identifier**, and **Plant Storage Locations**, must be synchronized between the inbound **QueryStockRequest** and outbound **IngestStockRequest** payload files.

Prerequisites and Restrictions

Prerequisites

- Do the following on SAP ERP:
 - Configure the inbound and outbound proxies to enable transactions between SAP ERP and SAP Ariba Procurement solutions to check the unrestricted stock. For more information, see [Configuring the Connections to Send Messages](#) for SAP Ariba Procurement solutions in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Maintain the `INVENTORY_BATCH_SIZE` parameter to define the number of records to export in each batch of the inventory. For more information, see [Configuring Batch Size for Stock Query](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.

Restrictions

- Storage location export to SAP Ariba Procurement solutions is supported only through full load master data export from SAP ERP.
- When the **IngestStockRequest** payload is submitted, SAP Ariba Buying and Invoicing checks each stock item against the inventory records. If the payload contains any stock item that does not match an inventory item, the entire payload is rejected. However, if the transaction involves multiple payloads, only the payloads containing invalid data are rejected.
- SAP Ariba Inventory Management is designed to support a one-to-one integration between a single SAP Ariba instance and a backend inventory system. Integration with multiple backend systems is not supported.

Stock Reservation

Buyers can check the available stock of a material and place a request to reserve the item. A reservation request is created in SAP ERP and a reservation number is sent back to SAP Ariba Procurement solutions. A reservation request does not block the available stock. The request is used as an information to make informed decisions on procuring stock for future requirement. The reservation request number is quoted by buyers when requesting for stock from the stores.

For example, in larger organizations when a reservation request is made for an item, the store in-charge can check for the stock available in different plants and storage locations. The store in-charge can then distribute materials from various locations or procure if there is a shortage of stock for a given location. Reservation of stock would ensure that the required quantity of item is available in stock when required.

If the buyer does not receive the reservation number in response to the reservation request, they can resend the request. SAP Integration Suite, managed gateway for spend management and SAP Business Network will identify the transaction and not process a duplicate request, but would attempt to resend the reservation number. The buyer cannot modify a reservation request but can delete the request.

ⓘ Note

As a reservation request does not block any stock, a reservation can be made even if the available stock is zero or less than the required quantity.

A reservation request supports comments at the line level and attachments at the header level.

ⓘ Note

SAP ERP or SAP S/4HANA truncates the file name of attachments exceeding 50 characters (including the extension).

Prerequisites and Restrictions

Prerequisites

- Do the following on SAP Ariba Procurement solutions:
 - Enable the `Application.Purchasing.EnableInventoryReservation` parameter.
 - Enable the following events for creation and deletion of reservation request and its response:
 - Export Reservation Deletion Request Asynchronously
 - Export Reservation Request Asynchronously
- Do the following on SAP ERP:
 - Configure the inbound and outbound proxies to enable transactions between SAP ERP and SAP Ariba Procurement solutions to check the unrestricted stock and for reservation of unrestricted stock. For more information, see [Configuring the Connections to Send Messages](#) for SAP Ariba Procurement solutions in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Maintain the `INVENTORY_BATCH_SIZE` parameter to define the number of records to export in each batch. For more information, see [Configuring Batch Size for Stock Query](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Enable the `ENABLE_MRO_INVENTORY` parameter to include MRO inventory details in the catalog uploads from SAP ERP. For more information, see [Maintaining Parameters for Catalog Upload Requests](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 - Define values for the movement types for stock reservation on the Cross Reference page in SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Setting Up Cross-References for Stock Reservation](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide*.
 -

Restrictions

- A reservation request cannot be edited.
- Storage location export to SAP Ariba Procurement solutions is supported only through full load master data export from SAP ERP.
- Header level comment is not supported in a reservation request.

- The table lists the number of characters allowed for each field in a reservation request:

ⓘ Note

Additional characters beyond the specified character length are truncated.

SAP Field Description	Numbers of Characters
Created By - User Name	12
Unloading Point	25
Goods Recipient/Ship To Party	12
Item Text	50

- File attachments with Chinese, Japanese, and Israeli file names are not supported.
- The attachment size cannot exceed 100 MB at the header level. If you attempt to exceed the file attachment size of 100 MB, SAP ERP or SAP S/4HANA and the SAP Ariba Buying solution either prevent or reject the document with an error message.

Integration to Support Purchase Requisitions, Blanket Purchase Orders, and Blanket Order Invoices with Standing Orders from SAP Ariba Procurement Solutions to SAP ERP or SAP S/4HANA

This feature enables you to integrate purchase requisitions, blanket purchase orders, and blanket order invoices that contain standing orders corresponding to the definition of item category B (document type `Framework Order`) from SAP Ariba Procurement solutions to SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network. You can use the blanket purchase orders to address the recurring requirement for items or services. For example, a company can create blanket purchase orders for items such as office articles and services such as electrical maintenance. Usually, blanket purchase orders are created for a predefined price over a definite period and they do not use goods receipts or service entry sheets.

ⓘ Note

This feature supports both blanket and standard purchase requisitions. A standard purchase requisition can contain line items corresponding to the definition of item category B along with the line items of other item categories. A framework requisition is created in SAP ERP based on the line items corresponding to the definition of item category B in the standard purchase requisition created in SAP Ariba Procurement solutions.

Both buyers and suppliers can post invoices against a blanket purchase order within the predefined value and time limits. SAP ERP uses the information about the account assignment from the blanket purchase order for creating blanket order invoices. These invoices are reconciled in SAP Ariba Procurement solutions. Buyers or the suppliers can split the account assignment by manually updating the blanket order invoice. In the **Cross Reference** page in SAP Integration Suite, managed gateway for spend management and SAP Business Network, the `SAP Framework Order Doc Type` parameter has been added for blanket purchase requisitions, blanket purchase orders, and blanket order invoices that contain standing orders corresponding to the definition of item category B (document type `Framework Order`).

For this feature, the following technical changes are made:

- The following XSLT files are modified:
 - cXML_RequisitionExportRequest_AddOn_RequisitionExportRequest
 - cXML_PurchaseOrderExportRequest_AddOn_PurchaseOrderExportRequest
 - cXML_PurchaseOrderChangeExportRequest_AddOn_PurchaseOrderChangeExportRequest
- Modified the ARBCIG_BAPI_INVOICE_CREATE function module to support split accounting at the time of blanket order invoice creation.

[Prerequisites \[page 311\]](#)

[Restrictions \[page 311\]](#)

[Integrating Purchase Requisitions, Blanket Purchase Orders, and Blanket Order Invoices with Standing Orders \[page 312\]](#)

Prerequisites

The following are the prerequisites for integrating purchase requisitions, blanket purchase orders, and blanket order invoices that contain standing orders corresponding to the definition of item category B (document type Framework Order):

- In SAP Ariba Procurement solutions, ensure the following:
 - Enable the feature to display the **Item Category** field on requisitions to allow users to flag line items as limit items. This option is controlled by the `Application.Procure.EnableItemCategoryOnRequisitionLine` parameter that SAP Ariba Support sets for your site. Have your Designated Support Contact (DSC) log a service request. An SAP Ariba Support representative will follow up to complete the request. For more information about contacting your Designated Support Contact, see [How can I see who is my company's Designated Support Contact \(DSC\)](#)
 - Enable the **Enable standing orders** feature controlled by the `Application.Procure.AllowLimitOrderItemCategory` parameter. This feature specifies whether users can create standing orders for limit items.
- In SAP ERP, define the assignment of various account assignment categories to corresponding to the definition of item category B.
- In SAP ERP, perform the configuration to allow copying of the NB requisition and create framework order.

Restrictions

The following are the restrictions for integrating purchase requisitions, blanket purchase orders, and blanket order invoices that contain standing orders corresponding to the definition of item category B (document type Framework Order):

- Account assignment type **U** is not supported from SAP Ariba Procurement solutions.
- Split accounting is not supported for blanket purchase orders.
- Credit memo is not supported for the blanket order invoices.

Integrating Purchase Requisitions, Blanket Purchase Orders, and Blanket Order Invoices with Standing Orders

The following workflow describes how to create purchase requisitions that contain standing orders corresponding to the definition of item category B (document type Framework Order), create blanket purchase orders based on the line items corresponding to the definition of item category B, and create blanket order invoices based on the blanket purchase orders:

ⓘ Note

SAP Integration Suite, managed gateway for spend management and SAP Business Network helps synchronize the information between SAP Ariba Procurement solutions and SAP ERP or SAP S/4HANA.

1. In SAP Ariba Procurement solutions, the buyer creates a purchase requisition with one or more line items corresponding to the definition of item category B.
2. In SAP ERP, a corresponding framework requisition with one or more line items corresponding to the definition of item category B is generated.
3. In SAP Ariba Procurement solutions, a blanket purchase order based on the line items corresponding to the definition of item category B in the purchase requisition is created.
4. In SAP ERP, a corresponding framework order for the line items corresponding to the definition of item category B in the framework requisition is generated.
5. Based on the blanket purchase order, a blanket order invoice is created in SAP Ariba Procurement solutions and the buyer reconciles the blanket order invoice.
6. In SAP ERP, a corresponding framework order invoice is generated.

Account Assignment Category N (Network)

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2108 (Q3 2021), you can choose the **Account Assignment** field as *N (Network)* to populate **Network** and **Activity Number** information in the line-item details, the *N (Network)* account assignment category between SAP ERP or SAP S/4HANA and SAP Ariba Buying and Invoicing using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

When you choose the **Account Assignment** field as *N (Network)*, **Network** and **Activity Number** are required fields in the line-item details.

ⓘ Note

While the **Account Assignment** field can be set to *N* to populate **Network** and **Activity Number** information, this does not apply to Reservations. Accounting type network and activity information will not be exported from SAP Ariba Buying to SAP Integration Suite, managed gateway for spend management and SAP Business Network in the payload for Reservations.

Master data

- The following prefilters for network and activity master data are introduced. You can maintain them before you integrate importing the network and activity master data from SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing:

- **NETWORK_EXPORT**
- **ACTIVITY_EXPORT**

For more information, see [Maintaining Filters for Network in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

- The following methods are added to the BAdI, ARBCIG_MASTERDATA. To enhance the network and activity master data using the ARBCIG_MASTERDATA BAdI, you can use these methods:

- **PUBLISH_NETWORK**
- **PUBLISH_ACTIVITY**

For more information, see [Implementing BAdI for Network Master Data Export in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

- The master data export program, ARBCIG_MASTER_DATA_EXPORT is enhanced to add a new checkbox, **Network and Activity** to the **Export All Master Data Required For On-Demand Application** page to support the extraction of the network and activity master data.

For more information, see [Importing the Network and Activity Master Data from SAP ERP or SAP S/4HANA to SAP Ariba Procurement Solutions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Master data language

- The prefilter **NETWORK_NAMES_EXPORT** is introduced for network language master data. You can maintain it before you integrate importing the network language master data from SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing.
For more information, see [Maintaining Filters for Network in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- The method **PUBLISH_NETWORK_NAMES** is added to the BAdI, ARBCIG_MASTERDATA. You can use this method to enhance the network language master data using the ARBCIG_MASTERDATA BAdI.
For more information, see [Implementing BAdI for Network Master Data Export in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- The master data language export program ARBCIG_MASTER_DATA_LANG_EXPORT is enhanced to add a new checkbox, **Network Language** to the **Pulls All The Master Data In Diff Lang Required For Ariba Application** page to support the extraction of the network language master data.
For more information, see [Importing the Network Language Master Data from SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Transaction data

Following changes are made to map the transaction data for **Network** and **Activity Number**:

- To import the network and activity number data from SAP ERP or SAP S/4HANA to SAP Ariba Buying and Invoicing, the following proxy interfaces are enhanced:
 - BuyerERPRequisitionRequest_Async_Out
 - BuyerServiceEntrySheetRequest_Async_Out
- To import the network and activity number data from SAP Ariba Buying and Invoicing to SAP ERP or SAP S/4HANA, the proxy interface ServiceEntrySheetRequest_Async_In is enhanced.
- The proxy structure AccountingCodingBlockAssignment is enhanced with the following new fields:
 - Network ID
 - Activity Number

- The XSLT mappings, mapping sheets, and schemas for the following document types are enhanced:
 - ERPRequisitionRequest
 - RequisitionExportRequest
 - PurchaseOrderExportRequest
 - PurchaseOrderChangeExportRequest
 - ServiceSheetExportRequest
 - ExternalServiceSheetImportAsyncRequest
 - PaymentExportRequest
- Report ARBCIG_BUY_PR_EXPORT, and includes ARBCIG_BUY_PR_EXPORT_F01 and ARBCIG_BUY_PR_EXPORT_TOP, are enhanced.
- Class CL_ARBCIG_ERP_ENTRYSHEET_IMPL, method MAPPING_OUT_P2P is enhanced.
- Class CL_ARBCIG_ENTRYSHEET_IMPL, method MAP_ES_TO_ERP is enhanced.
- Class CL_ARBCIG_BUY_SERVICES, methods PR_SERVICES_CHANGE, PR_SERVICES_CREATE, CHANGE_PO_SRV_ACC_HANDLING, CHANGE_PO_SRV_GET REP_SPLIT, and CREATE_PO_SRV_ACC_HANDLING are enhanced.

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Restrictions

Following are the restrictions for account assignment category *N* (*Network*):

SAP ERP or SAP S/4HANA

- Activity Number** without **Network** is not supported.
- Incremental load for network and activity master data is not supported.

SAP Ariba Buying and Invoicing

Master data for network and activity as part of MDNI is not supported.

Support for Configuring Test Environment Host Names for SAP Fieldglass Tenants

You can configure the test environment host names for SAP Fieldglass tenants to test the integration with SAP Ariba applications. The configuration can be document specific or can apply to all documents. The supported document type, ExternalReqForApprovallImportRequest (RequisitionAsyncImportPullStatusRequest), is routed to and from the SAP Ariba Procurement solutions.

You can configure the endpoints (test environments) for SAP Fieldglass tenants in the **Endpoints** tab of SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Managing Endpoints](#).

Transactions for SAP Ariba Sourcing and SAP Ariba Contracts

This section provides information about supported transactions for SAP Ariba Sourcing and SAP Ariba Contracts:

Note

When you use SAP S/4HANA, on-premise edition 2020 with SAP Ariba Contracts or SAP Ariba strategic sourcing solutions, ensure that you apply the SAP Note [2945140](#).

[Outbound Transactions for SAP Ariba Sourcing and SAP Ariba Contracts \[page 315\]](#)

[Inbound Transactions for SAP Ariba Sourcing and SAP Ariba Contracts \[page 324\]](#)

[Prerequisites \[page 343\]](#)

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[Workflow for Request for Quotation \[page 351\]](#)

[Integration Support for SAP Ariba Spend Analysis \[page 353\]](#)

Outbound Transactions for SAP Ariba Sourcing and SAP Ariba Contracts

[Request for Quotation \[page 315\]](#)

[Bill of Materials \[page 321\]](#)

[Engineering Change Orders \[page 323\]](#)

Request for Quotation

SAP ERP buyers can create and send a request for quotation as follows:

- SAP ERP buyers integrated with SAP Ariba Sourcing or SAP Ariba Contracts can create a request for quotation from the SAP ERP system and send a `QuoteRequest` cXML document to SAP Ariba Sourcing.
- SAP ERP buyers integrated with SAP Business Network and SAP Ariba Sourcing can create an RFQ event that originates in the SAP ERP system and sent across to SAP Business Network, where an RFQ event is created and published on SAP Business Network Discovery.

Additionally, SAP ERP buyers integrated with SAP Ariba Contracts can receive contracts from SAP Ariba Contracts and create contracts (outline agreements) on the SAP ERP system.

SAP ERP buyers can create requests for quotation with material items or service line items as follows:

- Create a new request for quotation
- Create a request for quotation against a purchase requisition
- Create a request for quotation against a contract (outline agreement)

Buyers receive an award back from SAP Ariba Sourcing or SAP Ariba Contracts as a purchase order or contract.

When a buyer sends a request for quotation, the cXML `QuoteRequest` document is sent to SAP Ariba Sourcing through the SAP Business Network and contains specific information needed to create a sourcing request.

Buyers can also create a sourcing event or contract line items document (CLID) with multiple service line items directly from SAP Ariba Sourcing or SAP Ariba Contracts. These sourcing events do not need an associated `QuoteRequest` from the SAP ERP system.

Requests for quotation also support the following:

- Attachments at the header-level and line item-level for new and change requests for quotations.
- Text descriptions at the header-level and line-item level for internal and external users.
- **Target Val.** in the header of the request for quotation. SAP Integration Suite, managed gateway for spend management and SAP Business Network also sends the currency of the target value in the `QuoteRequest` document.

The **Target Val.** field value that the SAP ERP sends is available in the **Baseline Spend** field of the Sourcing request on SAP Ariba Sourcing.

Note: SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the currency of the target value available in the RFQ document on the SAP ERP system. When the currency is not available in the RFQ, SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the company code currency to SAP Ariba Sourcing.

- **TrackingNo** field for line items on the SAP ERP system. The tracking number helps buyers to monitor the material or services they procure from suppliers.

[Request for Quotations with Service Items \[page 316\]](#)

[Request for Quotation with SAP Business Network and SAP Business Network Discovery \[page 317\]](#)

[Support for Text Descriptions at the Header and Line-Item Level for Internal and External Users \[page 318\]](#)

[Support for Attachments \[page 319\]](#)

[Service Long Text and Long Text for Line in Service Specifications \[page 320\]](#)

Request for Quotations with Service Items

Buyers using SAP Ariba Sourcing and SAP Ariba Contracts integrated with SAP ERP can add one or multiple service items in a request for quotation.

The request for quotation can include service item (category D) with up to five-level hierarchy (one parent item and four-level child hierarchy). The request for quotation can include the following:

Service item (category D) with up to five-level hierarchy (one parent item and four-level child hierarchy)

- One or more service specifications
- Service outlines with up to four-level hierarchies

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports end-to-end integration of only service child items of standard line types.

When SAP ERP receives the award containing service items from SAP Ariba Sourcing and creates a purchase order or contract, SAP Integration Suite, managed gateway for spend management and SAP Business Network processes the service items in the purchase order or contract. Each service item hierarchy can include spend limits (Overall Limit) towards the total cost of unplanned service line items in the award. The Overall Limit is the maximum value towards the total of all unplanned services.

SAP Integration Suite, managed gateway for spend management and SAP Business Network sends a confirmation to SAP Ariba Sourcing after creating a purchase order or contract.

When SAP Ariba Contracts sends a contract with service items, SAP Integration Suite, managed gateway for spend management and SAP Business Network creates a contract on the SAP ERP system and sends a response confirming the creation of the contract on the SAP ERP system. SAP Integration Suite, managed gateway for spend management and SAP Business Network also sends a confirmation when the contract has been updated or deleted on the SAP ERP system.

Request for Quotation with SAP Business Network and SAP Business Network Discovery

SAP Business Network allows buying organizations to integrate their SAP ERP systems with the SAP Business Network for the purpose of creating RFQ events. This enables buyers to manage quotes and purchase orders from within the SAP ERP system with the added benefits of SAP Ariba Sourcing award functionality and SAP Business Network supplier research.

RFQ events are automated request for quotations (RFQs), created through a direct integration between your SAP ERP and SAP Business Network, that allows buyers to build and publish tactical sourcing events with little to no action from project owners in SAP Ariba Sourcing. RFQ events are ideal for smaller events, for example an event with 3 to 4 suppliers, allowing buyers to quickly experience online sourcing without a substantial commitment of time or resources.

RFQ events originate in the SAP ERP system and sent across the SAP Business Network to SAP Ariba Sourcing, where an RFQ event is created and published on SAP Business Network Discovery. Suppliers can either be invited as part of the RFQ event or matched through SAP Business Network Discovery. Invited and matched suppliers receive notifications about the RFQ event from SAP Business Network and can then respond directly to the RFQ event in SAP Ariba Sourcing.

Depending on how the SAP Business Network Commerce Automation template is configured, supplier responses can automatically be sent back to the originating SAP ERP with no action from project owners or you can manually award suppliers directly in the SAP Business Network Commerce Automation solution.

The SAP Business Network Commerce Automation solution supports the ability to upload suppliers from your SAP ERP in to SAP Business Network. Uploaded suppliers are invited to create an SAP Business Network account through automated notifications, whether the suppliers are buyer invited, Ariba matched, or Ariba suggested.

For more information about the SAP Business Network Commerce Automation solution, see [Quote Automation Configuration and Integration Guide](#).

Support for Text Descriptions at the Header and Line-Item Level for Internal and External Users

Buyers can create a request for quotation (RFQ) on the SAP ERP system and send the text descriptions at the header-level and line-item level for internal and external users. SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the text for both internal and external user in separate categories on the SAP ERP system.

If the buyer creates a request for quotation against a purchase requisition, the text description for both the internal and external users available in the purchase requisition appears in the request for quotation.

Buyers can view the text description marked as internal user at the header-level and line-item level on the SAP ERP system. Suppliers can view the text description marked as external user at the header-level and line-item level on SAP Business Network and SAP Ariba Sourcing.

The **QuoteRequest** document stores the text description for both the external and internal users grouped together as individual extrinsic elements.

The table **ARBCIG_RFQ_TEXTS** is available for buyers to categorize the long text description specified at the header-level and line-item level for internal and external users in the Request for Quotation. Buyers need to maintain the text ID for the long text description for both internal and external users in the table, **ARBCIG_RFQ_TEXTS** on their SAP ERP system. Each of the long text description should be marked for internal or external users. Additionally, buyers need to maintain the text IDs for each of the long text descriptions in the

Define Texts for Request for Quotations SPRO configuration (► **Materials Management** ► **Purchasing** ► **RFQ/Quotation** ► **Texts for RFQs/Quotation**). SAP Integration Suite, managed gateway for spend management and SAP Business Network uses the filtering logic in the function module **ARBCIG_RFQ_GET_DETAILS** based on the text entries maintained in the table, **ARBCIG_RFQ_TEXTS**.

The following is a snippet of the long text description values maintained at the header-level:

↔ Sample Code

```
<Extrinsic name="Terms">
    <Extrinsic name="CompanyCode.Id">3000</Extrinsic>
    <Extrinsic name="CompanyCode.Name">IDES US INC</Extrinsic>
    <Extrinsic name="PurchasingOrganization.Id">3000</Extrinsic>
    <Extrinsic name="PurchasingOrganization.Name">IDES USA</
Extrinsic>
    <Extrinsic name="PurchasingGroup.Id">001</Extrinsic>
    <Extrinsic name="PurchasingGroup.Name">Dietl,B.</Extrinsic>
    <Extrinsic
name="ValidityStartDate">2017-06-26T13:06:38+02:00</Extrinsic>
    <Extrinsic
name="ValidityEndDate">2017-12-01T13:06:38+02:00</Extrinsic>
    <Extrinsic name="TargetValue">5678</Extrinsic>
    <Extrinsic name="InternalNote">Text description for ERP
buyers </Extrinsic>
    <Extrinsic name="ExternalNote"> Text description for
suppliers </Extrinsic>
    </Extrinsic>
</QuoteRequestHeader>
```

The following is a snippet of the long text description values maintained at the line-item level:

↔ Sample Code

```
<Extrinsic name="Terms">
```

```

<Extrinsic name="Plant.Id">3000</Extrinsic>
<Extrinsic name="Plant.Name">New York</Extrinsic>
<Extrinsic name="MaterialGroup.Id">00101</Extrinsic>
<Extrinsic name="MaterialGroup.Name">Stähle</Extrinsic>
<Extrinsic name="ItemCategory">0</Extrinsic>
<Extrinsic name="MaterialCode.Id">0000000000000000955</
Extrinsic>
1</Extrinsic>
<Extrinsic name="MaterialCode.Name">Kompressor Hochdruckteil
<Extrinsic name="Incoterms.Id"/>
<Extrinsic name="Incoterms.Name" />
<Extrinsic name="RFQId">6000000207</Extrinsic>
<Extrinsic name="RFQLineItemNumber">00010</Extrinsic>
<Extrinsic name="InternalNote">Text description for ERP
buyers </Extrinsic>
<Extrinsic name="ExternalNote"> Text description for
suppliers </Extrinsic>
</Extrinsic>
</ItemDetail>

```

Support for Attachments

You can add attachments at both the header-level and line item-level. To add attachments to requests for quotations, configure the DMS on your SAP ERP system.

The size of the attachments for both inbound and outbound documents cannot exceed 100 MB. Attachments can additionally have a payload of up to 40 MB.

If you attempt to exceed the file attachment size of 100 MB or 10,000 line items (40 MB) payload, SAP ERP and SAP Business Network either prevent or reject the document with an error message.

You can add multiple attachments from the Document Management Server (DMS) for each line item in a request for quotations. File types that you can attach at the line level depend on the file types that the DMS configuration supports.

If the attached file is encrypted or protected with password, SAP Business Network does not decrypt the file for suppliers to view the attachment. In such cases, buyers that send the encrypted or password-protected attachment to SAP Ariba Sourcing must share the required password with suppliers that want to view the attachment.

Some points to remember:

Ensure that the attached files have unique names and the names do not have blank spaces. When the outbound documents attachment URL contain special characters, buyers must ensure that:

- the attachment URL is encoded using the UTF-8 compliant character set
- `http://` is not encoded in the URL for attachments

For more information about configuring attachments, see [Supporting Attachments and Comments in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).

[Prerequisites and Limitations \[page 320\]](#)

Prerequisites and Limitations

The following are the prerequisites and limitation for attachments in the requests for quotation:

Prerequisites

- To attach line item-level attachments, you must configure DMS and upload the files that you want to attach at the line-item level to the DMS.

Limitations

- If you modify or delete a line item-level attachment, you must also update the line item text. Otherwise, the changes you made to the line item-level attachment do not get updated in the SAP Ariba application.
- After the request for quotation is approved in SAP Ariba Sourcing, no changes can be made to it.

For more information about configuring attachments, see [Supporting Attachments and Comments in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).

Service Long Text and Long Text for Line in Service Specifications

Buyers integrated with SAP Ariba Sourcing, SAP Ariba Contracts, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send the Service Long Text and Long Text for Line in service specifications for service line items in the `QuoteRequest` document.

Buyers can configure the long text descriptions and categorize them for buyers and suppliers in the Request for Quotation. As a buyer, you maintain the text object category and the corresponding ID for each of the long text descriptions you specify for the service specification. Specify `true` if you want to mark the long text description for suppliers. If you specify `false`, your suppliers cannot view the long text descriptions.

Buyers can view the text description marked as internal user at the line-item level on the SAP ERP system. Suppliers can view the text description marked as external user at the line-item level on SAP Business Network and SAP Ariba Sourcing.

Additionally, buyers can also add an alternative service specification and specify one of the following options:

- **No Altern.**: Use this option when you do not want to include an alternative to the service specification.
- **Basic Line**: Use this option to tag the service specification as a **Basic Line** type. You can add an alternative only if the service specification is of Basic Line type.
- **Altern. Line**: Use this option when you want to specify an alternative to the selected service specification. The service specification must be of **Basic Line** type. You specify the line number of the service specification that you want as an alternative service specification.

For example, you have Service line A having the following service specifications:

Service specification line number	Alternative option	Description
10	No Altern.	This service specification does not have an alternative service specification.
20	Basic Line	<p>This service specification is of basic line type.</p> <p>You can add one or more alternatives to this Basic Line service specification.</p>
30	Altern. Line: Line number:20	<p>This service specification is an alternative to service specification line number 20. Service specification line number 20 is of basic line type.</p>

ⓘ Note

- When a service specification has an alternative service specification, buyers can award either the **Basic Line** or both the **Basic Line** and the alternative service specification in SAP Ariba Sourcing.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not consider the value of the alternative service specification while calculating the total value summed up for the service specification.

Bill of Materials

Buyers using the product sourcing functionality in the SAP Ariba Strategic Sourcing solutions integrated with SAP ERP, can export the bill of materials (BOM) from SAP ERP to product sourcing.

Bill of materials provides a structured list of parts or components that form a product. The bill of materials information that SAP ERP exports to product sourcing includes information about material, plant, validity, component quantity, unit of measure, along with BOM number, usage and alternative BOMs.

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the following forms of BOM:

- Simple BOM
- Group BOM
- Variant BOM
- Multiple BOM

SAP Integration Suite, managed gateway for spend management and SAP Business Network exports only a single-level bill of material from SAP ERP to product sourcing. However, product sourcing can link the related bill of materials components and complete the bill of materials explosion. SAP ERP uses SOAP messages to send bill of materials data to product sourcing. SAP ERP sends a BOM Replicate Request document type to product sourcing, and the upon successful export of BOM, product sourcing sends a BOM Confirmation document type to SAP ERP.

Prerequisites and Restrictions

Prerequisites

To enable the integration to support bill of materials feature, you must:

- Implement the SAP Note [2835049](#).
- Import master data before performing BOM integration.
- Run the **Interface Setup program** in the SPRO program, with the **BOM Replicate request** and **BOM Confirmation** checkboxes checked.
- Enable **Product Sourcing** on SAP Ariba strategic sourcing solutions by contacting the SAP Ariba Support to configure the following:
 - Site - Ensure that the **Rebuild Hierarchy** and **Item Hierarchy Level Update** scheduled tasks have been scheduled on your site.
 - ERP - Ensure that the following scheduled tasks have been scheduled for your ERP System ID:
 - **Managed Gateway for Spend&Network Integration**
 - **BOM Upload Service Processor for Managed Gateway for Spend&Network**
- (Optional) In some cases, when buyers using SAP S/4HANA on-premise or SAP ERP EhP8 ran the incremental load event to import the bill of materials, the incremental load event did not extract any bill of material records. SAP Ariba recommends that you apply the SAP Note 2936121 to import the bill of materials master data using the incremental load successfully.
- Ensure that the following document types are available in **Document Types** on SAP Integration Suite, managed gateway for spend management and SAP Business Network:
 - BOM Replicate Request
 - BOM Confirmation

Restrictions

The integration to support bill of materials feature has the following restrictions:

- Only the material BOMs are supported in the current release.
- Sub items for the BOM components are not supported.
- Product sourcing only supports item category "L".
- BOM revision is not supported.
- If you mark the main material or components assigned to BOM at material master level for deletion, then there will be no impact on the BOM. (This is a standard SAP ERP behavior.)
- When you run a full load from SAP ERP to product sourcing, then delete a BOM at the header level and run a full load again, the deleted BOM is not transferred to product sourcing and hence this BOM will still be active in product sourcing for costing events. In order to overcome this restriction, We recommend that you run an incremental load before executing a subsequent full load, to process all the BOM changes in the system.
- Extension for BOM is not supported in the current release.

Engineering Change Orders

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), buyers on SAP Ariba Strategic Sourcing Suite integrated with SAP ERP or SAP S/4HANA using the SAP Integration Suite, managed gateway for spend management and SAP Business Network can source materials in the engineering phase using engineering change order (ECO) in bill of material (BOM).

When sourcing and securing materials, you can ensure that the materials reach on time to engineering team during the build/prototype phase, and to production line to meet production quality milestones and manufacturing launch dates.

You can send the following ECOs from SAP ERP or SAP S/4HANA to SAP Ariba Strategic Sourcing Suite:

- Change master data using a new SOAP web service. The change master contains change number, change valid from date, change reason, and change description.
- ChangeNumber and RevisionLevel in ItemMaster using the enhanced ItemMaster.
- ChangeNumber and ChangeNumberTo in a BOM using the enhanced **BOM Replicate Request** interface.

ⓘ Note

The field ChangeNumberTo is included in the payload only when you change the BOM with a new change number.

In SAP Ariba Strategic Sourcing Suite, you can:

- Send the change order information from SAP ERP or SAP S/4HANA.
- Open a BOM and view all change numbers associated with the BOM.
- View all revision levels (with change number) associated with material in a BOM.
- Compare prices of item across revision levels.
- View all components in a BOM updated by a selected change number.
- Search for material and BOM updated using a specific change number.

You can use the following BAdl to customize change master fields:

- BAdl name: **ARBCIG_CHANGE_REQUEST**
- Method name: **PUBLISH_CHANGEMASTER**

Service interface: **ChangeMasterRequest_Async_Out**

Change number interface in the SAP Integration Suite, managed gateway for spend management and SAP Business Network: **ChangeMasterRequest**

For more information about configurations related to ECOs, see the following tasks in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#):

- [Exporting the Change Master to SAP Ariba](#)
- [Scheduling a Job for the Change Master](#)
- [Implementing BAdl for the Change Master](#)

Related Information

[Bill of Materials \[page 321\]](#)

Prerequisites

SAP ERP or SAP S/4HANA

- Assign an item master to the ChangeNumberTo to fetch the ChangeNumber and RevisionLevel in the ItemMaster payload.

Note

If you do not assign an item master to the ChangeNumberTo, ChangeNumber and RevisionLevel remain blank in the ItemMaster payload.

- Run the **Interface Setup program** in the SPRO with the **Change Master Request** checked.

Restrictions

SAP ERP or SAP S/4HANA

- When extracting BOM with multiple change numbers:
 - Header contains only the latest change number.
 - Header does not contain the field ChangeNumberTo.
- When extracting ItemMaster with multiple change numbers, only the latest change number is extracted in the CSV file.

Inbound Transactions for SAP Ariba Sourcing and SAP Ariba Contracts

[Determining Contract Document Type \[page 325\]](#)

[QuoteMessage \[page 325\]](#)

[ContractRequest \[page 328\]](#)

[Standard Item Categories and Custom Document Types in SAP ERP and SAP S/4HANA \[page 331\]](#)

[Scheduling Agreements from SAP Ariba Contracts \[page 332\]](#)

[Scheduling Agreements from SAP Ariba Sourcing \[page 338\]](#)

Determining Contract Document Type

Conditions for determining contract document type.

The contract document type is determined based on the following conditions:

SAP Ariba Sourcing

- `QuoteMessageContract`
When the quote message payload consists of only material line items irrespective of **AddOninfo 1** or **AddOninfo 2** values maintained in SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- `QuoteMessageContractServices`
 - When the quote message payload consists of at least one service line item irrespective of **AddOninfo 1** or **AddOninfo 2** values maintained in SAP Integration Suite, managed gateway for spend management and SAP Business Network or
 - When the parameter value for **Service Interface** is set as `x` in the cross reference section of SAP Integration Suite, managed gateway for spend management and SAP Business Network

SAP Ariba Contracts

- `ContractRequest`
When basic data has only **AddOninfo 1** (ARBCI1 component) values maintained in SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- `ContractRequestServices`
When basic data has both **AddOninfo 1** (ARBCI1 component) and **AddOninfo 2** (ARBCI2 component) values maintained in SAP Integration Suite, managed gateway for spend management and SAP Business Network.

QuoteMessage

When a buyer sends the `QuoteRequest` to SAP Ariba Sourcing, SAP Ariba Sourcing processes the `QuoteRequest` and creates a sourcing request. The sourcing manager approves the request, creates a sourcing event, and invites suppliers to participate based on the criteria specified in the `QuoteRequest` document and the sourcing request template.

Suppliers bid on the sourcing event and SAP Ariba Sourcing creates an award for the winning bid. SAP Ariba Sourcing sends the award as a `QuoteMessage` back to the ERP system. Based on the information in the `QuoteMessage` for the award, SAP Integration Suite, managed gateway for spend management and SAP Business Network creates a purchase order, scheduling agreement, or contract (outline agreement) on the SAP ERP or SAP S/4HANA system.

The contract that SAP Integration Suite, managed gateway for spend management and SAP Business Network creates against the award also contains the **Validity Start** and **Validity End** date information.

To create a purchase order, buyers need to maintain the cross reference parameter in SAP Integration Suite, managed gateway for spend management and SAP Business Network.

On creating the purchase order, scheduling agreement, or contract, SAP Integration Suite, managed gateway for spend management and SAP Business Network sends a confirmation message to SAP Ariba Sourcing.

The confirmation message contains the following information:

- `contractID`
- The `contractID` attribute stores the `QuoteID` value.
- For purchase orders created on SAP ERP or SAP S/4HANA, the domain attribute for the `IdReference` identifier element stores the `SAPPurchaseOrderId` value.
- For contracts created on SAP ERP or SAP S/4HANA, the domain attribute for the `IdReference` identifier element stores the `SAPAgreementID` value.
- `contractDate`
- `SourcingEventID`
- `VendorID`
- Status code for the award received. A status code of 200 when received successfully or a status code of 503 when there is a failure.
- Status text for success or failure

Note

SAP Integration Suite, managed gateway for spend management and SAP Business Network sends a confirmation message for contracts created as follows:

- If you are using SAP ERP 6.0 EHP0 to EHP3, SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the `QuoteMessageConfirmation` confirmation message. The `QuoteMessageConfirmation` is applicable for purchase order, scheduling agreement, or contract containing material items using SAP ERP 6.0 EHP0 to EHP3.
- If you are using SAP ERP 6.0 EHP4 or above and have both material and service specification line items, SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the SAP ERP standard confirmation message (`QuoteMessageConfirmation`). This is also applicable for purchase order having service specification line items.

To send and receive master data from SAP Ariba Sourcing, buyers can create purchase orders, scheduling agreement, or contracts from awards that do not have a reference to a request for quotation on the SAP ERP system. When SAP Ariba Sourcing sends an award against a winning bid that contains material master data or material items created manually, SAP Integration Suite, managed gateway for spend management and SAP Business Network creates a purchase order, scheduling agreement, or contract on the SAP ERP system. Buyers need to ensure that they import the material master data from SAP ERP or SAP S/4HANA to SAP Ariba Sourcing and the material items created manually in the award include the item category and material group values.

The purchase orders and contracts can also contain the price unit of line items that are priced in a large quantity. SAP Integration Suite, managed gateway for spend management and SAP Business Network processes the line item price based on the price unit of the item. The **Net price** field on the SAP ERP system stores the price for the price unit based on the quantity. The **PO Quantity** field stores the quantity for the price unit.

When you use simple pricing conditions and do not send any value in the pricing validity period (**From** and **To** validity date) fields, SAP Ariba sends a default value for the pricing validity period.

Advanced pricing conditions and scales

SAP Ariba Sourcing integrated with SAP ERP or SAP S/4HANA through SAP Integration Suite, managed gateway for spend management and SAP Business Network supports advanced pricing conditions with multiple validity periods and scales based on quantity in an outline agreement. When SAP Ariba Sourcing sends the award

information as **QuoteMessageContractServices** with advanced pricing conditions and scales to SAP ERP, an outline agreement is created in the SAP ERP or SAP S/4HANA system.

Advanced pricing conditions for material items are specified for the pricing condition types, such as **Gross Price**, **Discount**, and **Surcharge**. Buyers can also specify advanced pricing conditions for material items with custom condition types. Condition types that only use fixed amount as the calculation type is supported. The condition types specified for a material item always include a validity period with a start date and an end date. The different validity periods available are **Monthly**, **Quarterly**, **Annually**, or **Custom**. If a validity period for a condition type is not specified, SAP Ariba sends a default value for the pricing validity period. You can add a single condition type for a material item or add multiple condition types for the same material item with different validity periods.

You can also define pricing scales for a material item with the **Gross Price**, **Discount**, and **Surcharge** condition types along with the validity periods. Pricing scales can be based on quantity, value, gross weight, volume, or net weight. This feature supports only pricing scales based on the quantity of purchase of a material item.

You can further specify a **Scale Type** for the **Gross Price**, **Discount**, and **Surcharge** condition types. The scale type determines whether the scale is a **From** scale or a **To** scale. For example, if you specify a **From** scale based on quantity, the scale determines different prices based on different quantities of the material item.

ⓘ Note

SAP ERP or SAP S/4HANA does not support advanced pricing conditions with graduated scales in outline agreements.

Buyers can also modify or update the advanced pricing conditions specified for a material item.

For more information, see [Maintaining Pricing Conditions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Support for attachments

You can send supplier bid and buyer award attachments with quote message documents from SAP Business Network Discovery to the SAP ERP system through SAP Integration Suite, managed gateway for spend management and SAP Business Network. Suppliers can send single or multiple attachments at the line-item level while responding to an RFQ posting, that is, a supplier bid. Also, buyers can send a single attachment at the header level while awarding the supplier.

Limitations

- When the outbound document attachment URL contains special characters, buyers must ensure that:
 - The attachment URL is encoded using the UTF-8 compliant character set.
 - `http://` is not encoded in the URL for attachments.
- The size of a single attachment for individual line items must not exceed 10 MB. If you add multiple attachments at the line-item level, the total size of all the attachments combined must not exceed 100 MB per RFQ posting.
- If you send attachments with duplicate file names, one of the file names will be appended with an **underscore1(_1)**. For example, if you send two attachments as `<file name>.<format>`, the file names at SAP Integration Suite, managed gateway for spend management and SAP Business Network would be `<file name>.<format>` and `<file name>_1.<format>`.

- If you send an attachment with a space in the file name, the space is replaced with an **underscore (_)** at SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- The following characters are not supported in the file name for attachments:
 - Space (SP, ASCII value 32)
 - Horizontal tab (HTAB, ASCII value 9)
 - Linefeed (LF, ASCII value 10)
 - Carriage return (CR, ASCII value 13)
 - Colon (:)
 - Characters which do not have an ASCII value within 33-126

ContractRequest

SAP ERP or SAP S/4HANA buyers integrated with SAP Ariba Contracts and SAP Integration Suite, managed gateway for spend management and SAP Business Network can create and sends the contracts (`ContractRequestService`) containing materials or service items to SAP ERP through SAP Integration Suite, managed gateway for spend management and SAP Business Network. SAP ERP creates the contract on the SAP ERP system and sends the confirmation back to SAP Ariba Contracts.

Note

If you use SAP S/4HANA or SAP ERP 6.0 EhP4 and higher versions, we recommend that you install both ARBCI1 and ARBCI2 software component versions.

Note

If you only use the software component version ARBCI1, SAP S/4HANA or SAP ERP creates the contract (`ContractRequest`) for material items. If you use the software component version ARBCI1 and ARBCI2, SAP S/4HANA or SAP ERP creates the contract (`ContractRequestService`) for contracts containing either material items, service items, or both.

Depending on your usage of either ARBCI1 or ARBCI1 and ARBCI2, `ContractRequest` or `ContractRequestService` transaction is displayed respectively in the **Document Type** field of the **Transaction Tracker** in the SAP Integration Suite, managed gateway for spend management and SAP Business Network.

If you are a buyer using SAP Ariba strategic sourcing solutions, you can also create contracts from the quotes (supplier quotations) sent from SAP Ariba Sourcing to SAP ERP.

When a buyer using SAP Ariba strategic sourcing solutions creates a Request for Quotation (RFQ) having material items or service items on the SAP ERP system, SAP ERP creates the `QuoteRequest` document containing the specific information required to create a sourcing request for material or service items and sends it to SAP Ariba Sourcing through SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network. Suppliers bid on the sourcing event and SAP Ariba Sourcing creates an award for the winning bid. SAP Ariba Sourcing sends the award as a `QuoteMessageContracts` back to the ERP system.

After SAP ERP creates a contract, SAP ERP system sends a response confirming the creation of the contract. SAP ERP also sends a confirmation when the contract has been updated or deleted on the SAP ERP system.

SAP ERP sends the confirmation message for contracts created as follows:

- If you are using SAP ERP 6.0 EHP0 to EHP3, SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the `QuoteMessageConfirmation` confirmation message. The `QuoteMessageConfirmation` is applicable for purchase order, framework order, or contract containing material items using SAP ERP 6.0 EHP0 to EHP3.
- If you are using SAP ERP 6.0 EHP4 and higher, SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the `PurchasingContractERPConfirmation`. This is applicable for contracts containing service specification.

Standard item categories and custom document types in SAP ERP and SAP S/4HANA

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network 2003 (Q1 2020) release, buyers can send the standard item categories and document types that SAP ERP or SAP S/4HANA supports in the `ContractRequest` and `ContractRequestServices` documents. For more information, see [Standard Item Categories and Custom Document Types in SAP ERP and SAP S/4HANA \[page 331\]](#).

Advanced pricing conditions and scales

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network 2003 (Q1 2020) release, SAP Ariba Sourcing or SAP Ariba Contracts integrated with SAP ERP through SAP Integration Suite, managed gateway for spend management and SAP Business Network supports advanced pricing conditions with multiple validity periods and scales based on quantity in an outline agreement. When SAP Ariba Sourcing or SAP Ariba Contracts sends a contract (`QuoteMessageContractServices` or `ContractRequestServices`) with advanced pricing conditions and scales to SAP ERP, an outline agreement is created in the SAP ERP system.

Advanced pricing conditions for material items are specified for the pricing condition types, such as **Gross Price**, **Discount**, and **Surcharge**. Buyers can also specify advanced pricing conditions for material items with custom condition types. Condition types that only uses fixed amount as the calculation type is supported. The condition types specified for a material item always include a validity period with a start date and an end date. The different validity periods available are **Monthly**, **Quarterly**, **Annually**, or **Custom**. If a validity period for a condition type is not specified, SAP Ariba sends a default value for the pricing validity period. You can add a single condition type for a material item or add multiple condition types for the same material item with different validity periods.

You can also define pricing scales for a material item with the **Gross Price**, **Discount**, and **Surcharge** condition types along with the validity periods. Pricing scales can be based on quantity, value, gross weight, volume, or net weight. This feature supports only pricing scales based on the quantity of purchase of a material item.

You can further specify a **Scale Type** for the **Gross Price**, **Discount**, and **Surcharge** condition types. The scale type determines whether the scale is a **From** scale or a **To** scale. For example, if you specify a **From** scale based on quantity, the scale determines different prices based on different quantities of the material item.

① Note

SAP ERP or SAP S/4HANA does not support advanced pricing conditions with graduated scales in outline agreements.

▲ Restriction

SAP Integration Suite, managed gateway for spend management and SAP Business Network does not validate the validity period for advanced pricing conditions in the QuoteMessageContract document.

Buyers can also modify or update the advanced pricing conditions specified for a material item.

For more information, see [Maintaining Pricing Conditions in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#) in [SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Sending Production Facility Information Between SAP Ariba Contracts and SAP ERP

Starting, SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2011 (Q4 2020), buyers on SAP Ariba Contracts can include information about the production facility in the contract terms that they send to SAP ERP to create an outline agreement on SAP ERP containing the information about the production facility.

Buyers integrated with SAP Business Network, SAP Ariba Contracts, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send information about the production facilities specified in the contract documents.

Buyers can include the production facility information in the contract workspace that they send to SAP ERP.

Buyers create contracts using SAP Ariba Contracts and specify information about the production facility associated with the supplier. This contract is published to SAP ERP or SAP S/4HANA as a contract.

Buyers can also create contracts from the sourcing events that uses the questionnaire template containing information about production facilities. When buyers request the information about the production facility, suppliers can select a production facility or create a new production facility using SAP Ariba strategic sourcing solutions.

SAP Integration Suite, managed gateway for spend management and SAP Business Network processes the production facility information in the contract. When customers change contracts that exist on SAP ERP, SAP ERP requires the changed contracts that SAP Ariba Contracts sends to contain information of all the partner functions associated to the vendor that previously existed in the original contract along with the newly added or changed partner functions.

The information about the production facility is maintained in the contract at the header level.

Prerequisites

SAP ERP

For production facility information:

- Configure the SAP ERP system for SAP Ariba Sourcing and SAP Ariba Contracts integration.

- Configure the partner determination procedure to process production facility information sent from SAP Ariba Contracts.
- Enable SAP Ariba Supplier Lifecycle and Performance (SLP).
- Use SAP EH6 for SAP ERP 6.0 and higher along with the component ARBCI2.

ⓘ Note

This feature is available for all customers using:

- SAP S/4HANA
- SAP ERP with business partner for contracts integration

Restrictions

- Production facility information can be specified for only one purchase organization at a time.
- SAP ERP does not support the plant information in contracts containing the production facility information.
- SAP ERP does not support the deletion of a production facility in existing contracts.

Standard Item Categories and Custom Document Types in SAP ERP and SAP S/4HANA

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network 2003 (Q1 2020) release, SAP ERP or SAP S/4HANA buyers integrated with SAP Ariba Contracts and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send the standard item categories and document types that SAP ERP or SAP S/4HANA supports in the `ContractRequest`, `ContractRequestServices`, and `SchedulingAgreement` documents.

ⓘ Note

Change logs for `ContractRequest` and `ContractRequestServices` are not supported.

Additionally, buyers can also send custom document types in the `ContractRequest`, `ContractRequestServices`, and `SchedulingAgreement` documents. To send custom document types, buyers must make the necessary customization in the XSLT mapping file and on the SAP ERP or SAP S/4HANA system.

SAP Integration Suite, managed gateway for spend management and SAP Business Network processes the following in scheduling agreements and contracts:

- Standard ERP item categories
- Standard document types
- Custom document types

Standard ERP item categories

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports integrating transaction documents with the following standard ERP item categories:

Item category	Code
Standard	Blank (no value). (Available in SAP ERP EHPO and higher)
Service	D (Available only in SAP ERP EHP4 and higher)

ⓘ Note

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports all the standard item categories in SAP ERP and SAP S/4HANA. However, there is no standard out-of-the-box integration to support all of them. SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the out-of-the-box integration for only item categories, Standard and Service. Customers must make the necessary changes to the XSLT mapping files and on their SAP ERP or SAP S/4HANA system to support all the standard item categories.

Standard document types

Buyers can use one of the following standard document types in the transaction documents that SAP Integration Suite, managed gateway for spend management and SAP Business Network supports with the out-of-the-box integration:

Document Type	Description
Scheduling agreement	LP
Scheduling agreement (with release)	LPA
Value Contract	WK
Quantity Contract	MK
Custom document type	For example, ZCK.

Custom document type

Buyers can also send custom document types in the `ContractRequest`, `ContractRequestServices`, and `SchedulingAgreement` documents. However, buyers must make the necessary customization in the XSLT mapping files and on the SAP ERP or SAP S/4HANA system before sending custom document types.

Document Type	Description
Custom document type	For example, ZCK.

Scheduling Agreements from SAP Ariba Contracts

[About Integration to Support Scheduling Agreements from SAP Ariba Contracts \[page 333\]](#)

[Support for Advanced Pricing Conditions and Scales in Scheduling Agreements \[page 334\]](#)

[Prerequisites and Restrictions \[page 335\]](#)

[Workflow to Support Scheduling Agreements from SAP Ariba Contracts \[page 337\]](#)

About Integration to Support Scheduling Agreements from SAP Ariba Contracts

SAP ERP buyers integrated with SAP Ariba Contracts and SAP Integration Suite, managed gateway for spend management and SAP Business Network can receive and process contracts containing material items with the document category, *Scheduling Agreement* created on SAP Ariba Contracts and sent to the SAP ERP or SAP S/4HANA system. The scheduling agreement can contain comments and simple pricing (gross price and discounts).

SAP Ariba Contracts can send contracts with the document category, scheduling agreement and with the document type, *LP* or *LPA*. Buyers can also specify a custom document type for the contract on SAP Integration Suite, managed gateway for spend management and SAP Business Network.

The SAP ERP system processes the contract and creates a scheduling agreement with the document type as LP or LPA. When SAP ERP creates a scheduling agreement with the document type LP or LPA, the scheduling agreement does not store the delivery schedule on the SAP ERP system. The scheduling agreement with the document type LP or LPA does not have schedule lines or a release document associated with it. Buyers on SAP Ariba Contracts can also send updates to the scheduling agreement and SAP ERP processes them, as required.

After creating the scheduling agreement document, the SAP ERP system sends a response (*Contract Status Update Request* document) with the document reference number associated with the scheduling agreement to SAP Ariba Contracts. Buyers can view the document IDs and the ERP ID associated to the contract for the document category, scheduling agreement on the SAP ERP system, using the transaction code ARBCIG_SRC_CONT_MAP.

Buyers using scheduling agreements can shorten and simplify the entire process of maintaining, tracking, and receiving material items from suppliers. The delivery for the material items in the scheduling agreement has a shorter cycle when compared to that for a contract. Suppliers can also manage delivery of the material items efficiently.

Standard Item Categories and Custom Document Types in SAP ERP and SAP S/4HANA

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network 2003 (Q1 2020) release, buyers can send the standard item categories and document types that SAP ERP or SAP S/4HANA supports in the *SchedulingAgreement* documents. For more information, see the section, [Standard item categories and custom document types in SAP ERP and SAP S/4HANA](#).

Enabling This Feature

This feature is disabled by default. For more information on enabling the feature in SAP Ariba Contracts, see [Configuring SAP Ariba Contracts Integration with SAP](#).

Support for Advanced Pricing Conditions and Scales in Scheduling Agreements

SAP ERP buyers integrated with SAP Ariba Contracts and SAP Integration Suite, managed gateway for spend management and SAP Business Network can receive and process contracts containing advanced pricing conditions and scales with the document category, Scheduling Agreement created on SAP Ariba Contracts and sent to the SAP ERP or SAP S/4HANA system.

The outline agreement and scheduling agreement that buyers create on SAP Ariba Contracts can contain the following for advanced pricing conditions:

- **Advanced Pricing conditions**

- Gross price
- Discounts
- Surcharges

SAP Ariba Contracts support discounts and surcharges only with fixed amounts.

- **Validity period**

The validity period for gross price, discounts, or surcharges. The validity period includes information about the start and end date for the validity.

You can specify the price validity with the following values:

- Monthly
- Quarterly
- Annually
- Custom price validity

SAP Ariba Contracts allow you to specify multiple validity periods for a material item. You can maintain different condition records for the same material item with different validity periods. For example, you can specify a condition record for a material item with a specific price for a month. You can create another condition record for the same material item with the price for a whole year.

ⓘ Note

If you do not specify a value for the validity period (start and end date for the validity) in the outline agreement or scheduling agreement, SAP Ariba sends a default value for the pricing validity period.

- **Scale Types**

SAP Ariba Contracts only supports quantity-based scales. SAP Ariba Contracts does not support all the standard values in the **Scale Basis** field that SAP ERP and SAP S/4HANA support.

SAP Ariba Contracts supports the From and To pricing scale types based on quantity. Maintain the pricing scale for the condition record based on the quantity using the From scale type or the To scale type.

- For example, buyers can specify a pricing scale based on quantity, where the price is lower for a higher quantity of material items. Additionally, buyers can specify a From scale type to determine the different prices based on different quantities.

ⓘ Note

When buyers create contracts for scheduling agreement on SAP Ariba Contracts and SAP Integration Suite, managed gateway for spend management and SAP Business Network, they can see the following options:

- **Document Type:** Scheduling Agreement
- **Document Category:** LP and LPA

However, on SAP ERP and SAP S/4HANA, you see the following options:

- **Document Category:** Scheduling Agreement
- **Document Type:** LP and LPA

Prerequisites and Restrictions

You require the following prerequisites to receive scheduling agreement that SAP Ariba Contracts sends to the ERP system. See [Supported SAP Ariba Solutions \[page 18\]](#)

Prerequisites

SAP ERP

- Configure to receive the scheduling agreements from SAP Ariba Contracts. To configure, go to the **► Integration with Other SAP Components ► Managed Gateway for Spend&Network for Buyer ► SAP Ariba Strategic Sourcing Suite Integration ► General Settings ► Setup the Interface ► Configure the connections to send messages** page.
- To view the document IDs sent by SAP Ariba Contracts and the corresponding ERP ID associated with the contract for the document category, scheduling agreement on the SAP ERP system, run the transaction code, ARBCIG_SRC_CONT_MAP.
- (Required if you are using SAP Process Integration) You need the following to configure your SAP Process Integration to receive contracts for scheduling agreements:
Configure the communication channel for the XI adapter to:
 - Send information to SAP Integration Suite, managed gateway for spend management and SAP Business Network
 - Send information from SAP ERP or SAP S/4HANA
 - Ensure that you configure the integration scenario for scheduling agreements and maintain the following condition:
 - Interface name: SchedulingAgreementERPRequest_Async_In
 - Routing condition required in the **Receiver Interface** page: (n0 : SchedulingAgreementERPRequest EX)
 - Namespace: `http://sap.com/xi/ARBCIG1`
- If you use a private tenant, use the artifact package for SAP Ariba Sourcing to receive contracts for scheduling agreements, `SOAP Inbound Pass Through Content for Ariba.zip`.
- To customize, buyers can use the following enhancement spot to make the necessary changes:
 - **Enhancement spot:** ARBCIG_ES_SCHEDGAGRMT
BAdI: ARBCIG_SCHEDGAGRMT
Interface: IF_ARBCIG_SCHEDGAGRMT
Methods:
 - PREPROCESSING: Pre-processing for ARBCIG_SCHEDGAGRMT BAdI
 - POSTPROCESSING: Post-processing for ARBCIG_SCHEDGAGRMT BAdI

The proxy, AribaExtension contains the required changes to support additional enhancement structures at the header and item level for the scheduling agreement. Buyer can use the ARIBA_EXTENSION to make more enhancement structures at the header and item level.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Ensure that you set up the necessary parameters and lookup table values on SAP Integration Suite, managed gateway for spend management and SAP Business Network. As an administrator, you set values for the parameters and lookup table while creating the project for **SAP Ariba Sourcing** or on the [My Configuration](#) page. Customers can maintain the required values for the parameters and *Lookup Table* entries by editing the project.
- Configure the *SAPDocType* for the Scheduling Agreement document type as LP in the *Lookup Table* tab. For more information, see the [Setting Up Fields in the Lookup Table in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Maintain the **Customer Value** and **Ariba Value - Data Type** for the document type, LP. SAP Ariba recommends that you maintain fields that support more than one value in the **Cross References** table on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal.
- Maintain pricing condition and account assignment mappings between SAP Ariba Sourcing and SAP ERP pricing condition types in the *Cross References* section on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. For more information, see [Setting Up Cross References for Contracts](#) and [Setting Up Cross References for Scheduling Agreements in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- (Optional) If you use a custom document type, ensure that you configure the customized document type in the **Cross References** on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal.

SAP Business Network

- Enable your SAP Business Network buyer account for SAP Ariba Contracts integration. Ensure that you have the necessary roles and permissions to send contracts to the SAP ERP system. To configure, contact SAP Ariba Support.
- Configure your SAP Business Network buyer account to enable the system ID, end-point configuration, and required rules to send contracts from SAP Ariba Contracts to SAP ERP through SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see [Configuring SAP Ariba Contracts Integration with SAP in Contract Administration Guide](#).

SAP Ariba Contracts

- Contact SAP Ariba Customer Support to configure your SAP Ariba Contracts solution for integration with the SAP ERP system. For more information, see [Configuring SAP Ariba Contracts Integration with SAP in Contract Administration Guide](#).
- Ensure that you enable the SAP Integration Suite, managed gateway for spend management and SAP Business Network for SAP Ariba Contracts. For more information, see [Configuring SAP Ariba strategic sourcing solutions to Access SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- Ensure that your SAP Ariba Contracts system has been enabled to send contracts with the document type, *Scheduling Agreement*. This feature is disabled by default. For more information on enabling the feature in SAP Ariba Contracts, see [Configuring SAP Ariba Contracts Integration with SAP](#).

- Ensure that you have the **Document Category**, **Scheduling Agreement** and **Document type**, **LP** in your SAP Ariba Contracts solution when creating a contract.
- If you are sending pricing conditions in the contract, ensure that you configure your SAP Ariba Contracts system to send pricing conditions.

Restrictions

- SAP Ariba Contracts does not support the following:
 - Service items in scheduling agreement documents that SAP Ariba Contracts sends to the SAP ERP system. The contracts containing service items fail on the SAP ERP system. The scheduling agreement must only contain material items.
 - Creating a scheduling agreement using an RFQ award that was published and sent from SAP Ariba Sourcing to SAP ERP.
 - Scheduling agreements containing pricing conditions with the percentage values for surcharge and discounts. SAP Ariba Contracts only supports the Fixed amount calculation type.
- Comments and attachments in the contracts and scheduling agreements.
- SAP Ariba supports custom fields in SAP Ariba Contracts. However, SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support the mapping for the custom fields.
- Deletion of validity period or scales for pricing conditions.
- SAP Ariba Contracts does not support advance pricing and simple pricing conditions together on a single line of contract.

Workflow to Support Scheduling Agreements from SAP Ariba Contracts

The following describes the work flow for contracts containing material items with the document category, **Scheduling Agreement** created on SAP Ariba Contracts and sent to the SAP ERP or SAP S/4HANA system:

1. Ensure that you have enabled the required configuration and rules to process contracts with the document category, scheduling agreement, created on SAP Ariba Contracts and sent to the SAP ERP or SAP S/4HANA system. Buyers on SAP Ariba Contracts can view the document category, scheduling agreement and the document type, LP or LPA, only when they enable this functionality. For more information, see [Prerequisites and Restrictions \[page 335\]](#).
2. The buyer creates a contract with the document category, scheduling agreement and the document type, LP or LPA on SAP Ariba Contracts and sends it to the SAP ERP or SAP S/4HANA system through SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network. The contract for a scheduling agreement can contain simple or advanced pricing.

Note

- SAP Ariba supports the usage of the custom document type. If you use a custom document type, ensure that you configure the customized document type in the   on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal.

3. SAP ERP or SAP S/4HANA receives the contract with the document category, scheduling agreement and the document type, LP or LPA from SAP Ariba Contracts and processes the contracts as follows:
 - On receiving a new contract for the document category, scheduling agreement, SAP ERP or SAP S/4HANA processes the contract and creates a scheduling agreement.
 - On receiving an update containing new additions or changes in pricing conditions to an existing contract for the document category, scheduling agreement, SAP ERP or SAP S/4HANA adds the new line items or makes the required updates to the existing scheduling agreement stored on the system. Buyers must ensure that the contract with the scheduling agreement document category does not contain any schedule lines. SAP ERP does not process contracts with the schedule lines.
 - On receiving an update containing deleted line items to an existing contract for the document category, scheduling agreement, SAP ERP or SAP S/4HANA removes the deleted line items from the existing scheduling agreement stored on the system.
4. SAP ERP or SAP S/4HANA sends a response (Contract Status Update Request) document to SAP Ariba Contracts. The response document contains the document reference number associated with the scheduling agreement newly created on the SAP ERP or SAP S/4HANA system.
5. You can view the document IDs and the corresponding ERP ID associated with the contract for the document category, scheduling agreement, on the SAP ERP system by running the transaction code, ARBCIG_SRC_CONT_MAP.

Scheduling Agreements from SAP Ariba Sourcing

[About Integration to Support Scheduling Agreements from SAP Ariba Sourcing \[page 338\]](#)

[Support for Advanced Pricing Conditions and Scales in Scheduling Agreements from SAP Ariba Sourcing \[page 339\]](#)

[Prerequisites and Restrictions \[page 340\]](#)

[Workflow to Support Scheduling Agreements from SAP Ariba Sourcing \[page 343\]](#)

About Integration to Support Scheduling Agreements from SAP Ariba Sourcing

SAP ERP buyers integrated with SAP Ariba Sourcing and SAP Integration Suite, managed gateway for spend management and SAP Business Network can receive and process RFx sourcing awards containing material items with the Scheduling Agreement document type, created on SAP Ariba Sourcing and sent to the SAP ERP or SAP S/4HANA system. The scheduling agreement can contain advanced pricing conditions and scales. For more information, see [Support for Advanced Pricing Conditions and Scales in Scheduling Agreements from SAP Ariba Sourcing \[page 339\]](#).

Buyers can create a RFx sourcing event with the document type, **Scheduling Agreement**, and the document category, **LP** or **LPA** in SAP Ariba Sourcing. Suppliers bid on the sourcing event and SAP Ariba Sourcing creates an award for the winning bid. SAP Ariba Sourcing sends the RFx sourcing award with the **Scheduling Agreement** document type and the **LP** or **LPA** document category to the SAP ERP system.

ⓘ Note

SAP Ariba Sourcing supports creating a RFx sourcing award with the **Scheduling Agreement** document type for the Request for Quotation (RFQ) from the SAP ERP system.

If the RFx sourcing award contains the reference document type as **Scheduling Agreement** and **LP** or **LPA** as the document category, SAP Ariba Sourcing sends the RFx sourcing award as a cXML `QuoteMessageSchedulingAgreement` document to the SAP ERP system. The SAP ERP system processes the `QuoteMessageSchedulingAgreement` document and creates a scheduling agreement.

When SAP ERP creates a scheduling agreement, the scheduling agreement does not store the delivery schedule on the SAP ERP system. The scheduling agreement in SAP ERP with the document type **LP** or **LPA** does not have schedule lines or a release document associated with it.

After creating the scheduling agreement document, the SAP ERP system sends a response with the document reference number associated with the scheduling agreement to SAP Ariba Sourcing. Buyers can view the quote IDs and the corresponding ERP ID associated with the scheduling agreements in SAP ERP using the `ARBCIG_SRC_CONT_MAP` transaction code.

Buyers using scheduling agreements can shorten and simplify the entire process of maintaining, tracking, and receiving material items from suppliers. The delivery for the material items in the scheduling agreement has a shorter cycle when compared to that for a contract. Suppliers can also manage delivery of the material items efficiently.

ⓘ Note

When buyers create an RFx sourcing award for scheduling agreement on SAP Ariba Sourcing and SAP Integration Suite, managed gateway for spend management and SAP Business Network, they can see the following options:

- **Document Type:** Scheduling Agreement
- **Document Category:** LP and LPA

However, on SAP ERP and SAP S/4HANA, you see the following options:

- **Document Category:** Scheduling Agreement
- **Document Type:** LP and LPA

Support for Advanced Pricing Conditions and Scales in Scheduling Agreements from SAP Ariba Sourcing

SAP ERP buyers integrated with SAP Ariba Sourcing and SAP Integration Suite, managed gateway for spend management and SAP Business Network can receive and process RFx sourcing awards containing advanced pricing conditions and scales with the document type, Scheduling Agreement created on SAP Ariba Sourcing and sent to the SAP ERP or SAP S/4HANA system.

The scheduling agreement that buyers create on SAP Ariba Sourcing can contain the following for advanced pricing conditions:

- **Advanced pricing conditions**

- Gross price
- Discounts
- Surcharges

SAP Ariba Sourcing support discounts and surcharges only with fixed amounts.

- **Validity period**

The validity period for gross price, discounts, or surcharges. The validity period includes information about the start and end date for the validity.

You can specify the price validity with the following values:

- Monthly
- Quarterly
- Annually
- Custom price validity

SAP Ariba Sourcing allow you to specify multiple validity periods for a material item. You can maintain different condition records for the same material item with different validity periods. For example, you can specify a condition record for a material item with a specific price for a month. You can create another condition record for the same material item with the price for a whole year.

 **Note**

If you do not specify a value for the validity period (start and end date for the validity) in the scheduling agreement, SAP Ariba sends a default value for the pricing validity period.

- **Scale Types**

SAP Ariba Sourcing only supports quantity-based scales. SAP Ariba Sourcing does not support all the standard values in the **Scale Basis** field that SAP ERP and SAP S/4HANA support.

SAP Ariba Sourcing supports the From and To pricing scale types based on quantity. Maintain the pricing scale for the condition record based on the quantity using the From scale type or the To scale type.

- For example, buyers can specify a pricing scale based on quantity, where the price is lower for a higher quantity of material items. Additionally, buyers can specify a From scale type to determine the different prices based on different quantities.

Prerequisites and Restrictions

SAP Ariba Sourcing

- Ensure that your SAP Ariba Sourcing solution is integrated with SAP ERP through SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Ensure that your SAP Ariba Sourcing solution has been enabled to send RFx sourcing awards with the document type, **Scheduling Agreement**.
- Ensure to have the **LP** and **LPA** document categories configured for the **Scheduling Agreement** document type in your SAP Ariba Sourcing solution.
- To use pricing conditions in the RFx event template, enable the following feature in SAP Ariba Sourcing: DMS-5018: Pricing Conditions – Volume Scales/Breaks in Sourcing and Contracts To enable the above feature in SAP Ariba Sourcing, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.
- To use pricing conditions for material items, enable the **Allow Pricing Conditions** rule in the **Bidding Rules** section of your RFx event template in SAP Ariba Sourcing.

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Ensure that you set up the necessary parameters and lookup table values on SAP Integration Suite, managed gateway for spend management and SAP Business Network. As an administrator, you set values for the parameters and lookup table while creating the project for **SAP Ariba Sourcing** or on the **My Configuration** page. Customers can maintain the required values for the parameters and **Lookup Table** entries by editing the project. SAP Ariba recommends that you maintain fields that support more than one value in the **► My Configurations** **CrossRefs** **Lookup Table** **»** on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal.
- Ensure to enable the necessary cross references for scheduling agreements on SAP Integration Suite, managed gateway for spend management and SAP Business Network. In the Document type page, add **QuoteMessageSchedulingAgreement** as the **Document Type**. Configure the **Source Document Type** and **Target Document Type** as **QuoteMessageSchedulingAgreement**.
- Maintain pricing conditions and account assignment mappings between SAP Ariba and SAP ERP pricing condition types in the **Cross Reference** section on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. For more information, see [Setting Up Cross References for QuoteMessage in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- The values for **Gross Price**, **Discount**, and **Surcharge** condition types must be defined in the lookup table of the **Cross Reference** section in the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. The values for these condition types in SAP Ariba solutions must be **PRICE**, **DISCOUNT**, and **SURCHARGE**.

SAP ERP or SAP S/4HANA

- Ensure to configure your SAP ERP system to receive scheduling agreements from SAP Ariba Sourcing. To configure, go to the **► Integration with Other SAP Components** **► Managed Gateway for Spend&Network for Buyer** **► SAP Ariba Strategic Sourcing Suite Integration** **► General Settings** **► Setup the Interface** **► Configure the connections to send messages** **»** page. For more information, see [Configuring the Connections to SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- To view the quote IDs sent by SAP Ariba Sourcing and the corresponding ERP ID associated with the RFx sourcing awards for scheduling agreement on the SAP ERP system, run the transaction code, **ARBCIG_SRC_CONT_MAP**.
- (Required if you are using SAP Process Integration) Ensure to configure SAP Process Integration to receive sourcing awards for scheduling agreements. Configure the communication channel for the XI adapter to:
 - Send information to SAP Integration Suite, managed gateway for spend management and SAP Business Network
 - Send information from SAP ERP or SAP S/4HANA
 - Configure the integration scenario for scheduling agreements and maintain the following condition:
 - Interface name: **SchedulingAgreementERPRequest_Async_In**
 - Routing condition required in the **Receiver Interface** page: (n0 : **SchedulingAgreementERPRequest_EX**)
 - Namespace: **http://sap.com/xi/ARBCIG1**
- If you use a private tenant, use the **SOAP Inbound Pass Through Content for Ariba.zip** artifact package for SAP Ariba Sourcing to receive sourcing awards for scheduling agreements.

- To customize, buyers can use the following enhancement spot to make the necessary changes:

- **Enhancement spot:** ARBCIG_ES_SCHEDGAGRMT
- **BAdI:** ARBCIG_SCHEDGAGRMT
- **Interface:** IF_ARBCIG_ SCHEDGAGRMT
- **Methods:**
 - **PREPROCESSING:** Pre-processing for ARBCIG_SCHEDGAGRMT BAdI
 - **POSTPROCESSING:** Post-processing for ARBCIG_SCHEDGAGRMT BAdI

The proxy, AribaExtension contains the required changes to support additional enhancement structures at the header and item level for the scheduling agreement. Buyer can use the ARIBA_EXTENSION to make more enhancement structures at the header and item level.

SAP Business Network

- Enable your SAP Business Network buyer account for SAP Ariba Sourcing integration. Ensure that you have the necessary roles and permissions to send RFx sourcing awards to the SAP ERP system. To configure, contact SAP Ariba Support.
- Configure your SAP Business Network buyer account to enable the system ID, end-point configuration, and required rules to send RFx sourcing awards from SAP Ariba Sourcing to SAP ERP through SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Restrictions

- SAP Ariba does not support service items in the scheduling agreement that SAP Ariba Sourcing sends to the SAP ERP system. The awards containing service items fail on the SAP ERP system. The scheduling agreement must only contain material items.
- SAP Ariba Sourcing does not support updating the RFx sourcing awards once the RFx sourcing awards are published to SAP ERP.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support schedule lines in scheduling agreements.
- The advanced pricing conditions feature is applicable only for customers with SAP ERP system version EHP4 or higher.
- SAP Ariba Sourcing supports advanced pricing conditions with quantity scales. SAP Ariba Sourcing does not support pricing conditions with value scales, volume scales, and so on.
- SAP Ariba Sourcing does not support pricing condition types with percentage (%) as the calculation type.
- SAP Ariba Sourcing does not support advanced pricing conditions with graduated scales in scheduling agreements.
- The end-to-end integration of SAP Ariba Sourcing with SAP ERP or SAP S/4HANA through SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support deleting validity periods and scales.
- SAP Ariba Sourcing does not support advance pricing and simple pricing conditions together on a single line of contract.

Workflow to Support Scheduling Agreements from SAP Ariba Sourcing

The following procedure describes the workflow for creating scheduling agreements in SAP ERP from the RFx sourcing awards containing material items with the **Scheduling Agreement** document type:

1. Ensure that your SAP ERP system is configured to process the RFx sourcing awards with the document type, **Scheduling Agreement** and document category, **LP** or **LPA**.
2. To generate a RFx sourcing award in SAP Ariba Sourcing with **Scheduling Agreement** as the document type:
 - Buyers can create a Request for Quotation (RFQ) in the SAP ERP system and send the **QuoteRequest** document to SAP Ariba Sourcing. SAP Ariba Sourcing processes the **QuoteRequest** document and creates a sourcing event with the **Scheduling Agreement** as the document type and **LP** or **LPA** as the document category. Suppliers bid on the sourcing event and SAP Ariba Sourcing creates an award for the winning bid.
 - Buyers can create a sourcing event in SAP Ariba Sourcing with the **Scheduling Agreement** as the document type and **LP** or **LPA** as the document category. Suppliers bid on the sourcing event and SAP Ariba Sourcing creates an award for the winning bid.
3. Buyers send the RFx sourcing award to the SAP ERP system through SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network. The RFx sourcing award for a scheduling agreement can contain simple pricing conditions or advanced pricing conditions with scales.
4. SAP ERP receives the RFx sourcing award with the document type, **Scheduling Agreement** and the document category, **LP** or **LPA** from SAP Ariba Sourcing, processes the award, and creates a scheduling agreement.
5. SAP ERP or SAP S/4HANA sends a response document to SAP Ariba Sourcing. The response document contains the document reference number associated with the scheduling agreement newly created on the SAP ERP system.

Prerequisites

Prerequisites

General

- Contact SAP Ariba Support to enable the integration of the ERP strategic sourcing requests with SAP Ariba Sourcing for your site. Enable the integration by running the scheduled task, **EnableSourcingERPIntegrationTask**. You must be a member of the **Customer Administrator** group to run a scheduled task. This task ensures that all cXML **QuoteRequest** documents received in SAP Ariba Sourcing are treated as sourcing requests rather than spot quote events. cloud integration release 9.0 and higher, and you are using SAP EHP0, EHP1, EHP2, or SAP EHP3, ensure that you configure the integration scenarios

ⓘ Note

A site in SAP Ariba Sourcing can only be configured to handle a cXML **QuoteRequest** as a sourcing request or a spot quote, not both.

- Contact SAP Ariba Support to configure an SAP Business Network endpoint. An SAP Business Network buyer account must be configured to route `QuoteRequest` documents to SAP Ariba Sourcing. Both the SAP Business Network buyer and SAP Ariba Support must perform configuration tasks.
- Ensure that you enable the SAP Integration Suite, managed gateway for spend management and SAP Business Network for SAP Ariba Sourcing. To configure SAP Integration Suite, managed gateway for spend management and SAP Business Network, you must be a member of the **Integration Admin** or **Customer Administrator** group. For more information, see [Enabling the SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network on SAP Ariba strategic sourcing solutions](#) in the *SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide*.
- To avoid the following error message from SAP standard BAPI when you route outline agreements to SAP ERP or SAP S/4HANA, implement SAP Note [2208145](#)

SAP Error: : ME 816: CL_API_MASTER_CONDITION_MM=>PROCESS
SAP Ariba also recommends that you implement the following-related SAP Notes: [2078079](#), [2079795](#), [2080279](#), [2122482](#), [2135831](#), [2150747](#), [2160353](#), [2162692](#), and [2203658](#)
- To use all the functionalities that SAP Ariba for SAP Ariba Contracts provides, ensure that SAP Ariba Support enables the cXML New Format and cXML Version 34 Added Feature options in your SAP Ariba Strategic Sourcing Suite site.
- Buyers and suppliers must configure the required rules and necessary settings in their SAP Business Network, SAP Ariba Sourcing, and SAP Ariba Contracts user accounts to send and receive `quoteRequest`, `quoteMessage`, and `contractRequest` for material items and service line item hierarchies. For more information, see the following guides:
 - [SAP Business Network Buyer Administration Guide](#) - section [SAP Business Network Configuration](#)
 - [RFQ and Award Integration with SAP Ariba Sourcing](#) - sections [Configuring SAP Ariba Sourcing and SAP Business Network for Integration with an ERP System](#) and [Creating Sourcing Request Templates for ERP Integration](#)
 - [Common Data Import and Administration for SAP Ariba Procurement Solutions](#) - section [Bulk Import of Contract Requests](#)
 - [Managing Projects, Teams, Documents, and Tasks](#) - section [Contract Line Items Documents \(CLIDs\)](#)
- `cloudAttachments` for request for quotations are supported at both header-level and line item-level. SAP ERP allows you to add line-level attachments to requests for quotations for both new and change requests for quotations. You must also configure the DMS on your SAP ERP or SAP S/4HANA system to add the attachment for line items.
- If you are an existing customer using SAP Ariba cloud integration release 9.0 and earlier, and receive contracts with service line items from SAP Ariba Contracts, ensure that you configure to use the integration scenarios `AR_ContractRequest_V1_Send` and `AR_ContractStatusUpdate_V1_Receive`. The integration scenarios support both material items and multiple service line items.
The integration scenarios `AR_ContractRequest_Send` and `AR_ContractStatusUpdate_Receive` only support material items and do not support multiple service line items.
- The `ContractRequest` supports the external number range. To send the external number range for contracts in the **Purchasing Contract ID** field, customers must make changes to the BADI `ARBCIG_SRC_CONTRACT_CREATE` (Method `PROCESS` and class `cl_arbcig_contract_create_impl`) to process the external number range.
- If you are an SAP Integration Suite, managed gateway for spend management and SAP Business Network customer using ARBCI1 100: SP 0001, ARBCI2 100: SP 0001, ARBCI1 10S: SP 0001, or ARBCI2 10S: SP 0001, maintain the value mapping on how suppliers are selected and matched by SAP Ariba slightly different. Go to the [My Configuration>Cross Reference](#) tab on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal and maintain the values for the `QuoteRequest` as follows:

- Specify the Ariba value as the Customer value and the Customer value as the Ariba value. For example, specify the Ariba value as “AN” and Customer value as “invitationOnly.”

ⓘ Note

If you maintain any custom value mappings, ensure that you maintain the values as above.

- If you are a customer using SAP Integration Suite, managed gateway for spend management and SAP Business Network with ARBCI1 100: SP 0001, ARBCI2 100: SP 0001, ARBCI1 10S: SP 0001, or ARBCI2 10S: SP 0001 and upgrade to SAP Integration Suite, managed gateway for spend management and SAP Business Network with ARBCI1 100: SP 0002, ARBCI2 100: SP 0002, ARBCIGR 100: SP 0002 ARBCI1 10S: SP 0002, ARBCI2 10S: SP 0002, or ARBCIGR 10S: SP 0002, ensure that you maintain the value mapping on how suppliers are selected and matched by SAP Ariba as the following:
 - Go to the **▶ My Configuration ➤ Cross Reference** tab on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal and maintain the values for the **QuoteRequest** as the following:
 - Specify the Ariba value as the Ariba value and Customer value as the Customer value. For example, specify the Ariba value as “invitationOnly” and Customer value as “AN.”

ⓘ Note

If you maintain any custom value mappings, ensure that you maintain the values as above.

- To use advanced pricing conditions in outline agreements:
 - Enable **DMS-5018: Pricing Conditions - Volume Scales/Breaks in Sourcing and Contracts**. Contact your Designated Support Contact to log a service request. An SAP Ariba Support representative will follow up to complete the request.
 - Ensure that **DMS-9510: Support for FROM scales in pricing conditions** is enabled for your site.

To enable the above features in the SAP Ariba Sourcing and SAP Ariba Contracts solutions, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.

- Maintain pricing condition mappings between SAP Ariba solutions and SAP ERP or SAP S/4HANA pricing condition types in the **Cross Reference** section on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. For more information, see [Setting Up Cross References for Contracts in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- If you are sending pricing conditions in the contract, ensure that you configure your SAP Ariba Contracts solution to send pricing conditions.
- The values for **Gross Price**, **Discount**, and **Surcharge** condition types must be defined in the lookup table of the **Cross Reference** section in the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. The values for these condition types in the SAP Ariba solutions must be **PRICE**, **DISCOUNT**, and **SURCHARGE**.
- Maintain the parameters for the document types you require in the **▶ Cross References ➤ Lookup Table** tab.
If you specify custom document types, ensure that the parameter names do not exceed four characters. For example, ZLPA, ZLP, ZWK.

ⓘ Note

If you are an existing buyer, using SAP Integration Suite, managed gateway for spend management and SAP Business Network release SP 007 and earlier and have already configured the cross references on SAP Integration Suite, managed gateway for spend management and SAP Business Network for contracts with document types Quantity Contract (MK) and Value Contracts (WK), you can continue using the same document types in SAP Integration Suite, managed gateway for spend management and SAP Business Network release SP 008.

Request for quotations with material items

- If you are an existing customer using SAP AribaAR_ContractRequest_Send and AR_ContractStatusUpdate_Receive that supports only material items. These EHP versions do not support multiple service line items.
- If your SAP Ariba Sourcing site is integrated to use master data, your site must have the master data items loaded from SAP ERP or SAP S/4HANA. Your SAP Ariba Sourcing site must be integrated with an SAP ERP or SAP S/4HANA to use the middleware and have SAP ERP or SAP S/4HANA configured as an external system in the Master Data Manager area of the Ariba Administrator.
- Buyers must ensure that they import the material master data from SAP ERP or SAP S/4HANA to SAP Ariba Sourcing. To send the award to SAP ERP or SAP S/4HANA:
The awarded items must include entries from the material master item data or ad hoc items (items created manually). Ad hoc items must also include the **Item Category** and **Material Group** values.
 - Buyers must have an active relationship with the awarded suppliers on SAP Business Network and each supplier must have a valid Vendor Key configured.

Contracts with service items

- You require the following to send request for quotations and receive awards (QuoteMessage) from SAP Ariba Sourcing and contracts from SAP Ariba Contracts:
 - If you use SAP EHP4 (SAP_APPL 604 SPS05) or higher, ensure that your Software Component Version is SAP APPL 604 or higher.
 - If you use a version lower than SAP EHP5, SAP NetWeaver Process Integration (PI) or SAP Exchange Infrastructure (XI) is required to use the PurchaseContract Confirmation (PurchasingContractERPConfirmation_Out).
 - Configure the SAP Ariba cXML Adapter to use cXML version 1.2.034 or higher, which supports quoteRequest, quoteMessage, and contractRequest intrinsic elements for service line item hierarchies.
 - Based on the Software Component Version, you also need to install the corresponding ESR (Enterprise Service Repository) content from SAP Market Place. Ensure that you download and install the SAP_APPL_6.XX_XX_XX.tpz file for the SAP ERP Enterprise Services package. You require the tpz only if you are using a middleware and send transaction documents using the middleware.
 - If you use SAP EHP4 (SAP_APPL 604 SPS05) or SAP EHP5 (SAP_APPL 605), you require the following SAP Notes:
 - [1604359](#) - Changing data in BAdl pur_se_pcerpmntrq1_asyn has no effect
 - [1409742](#) - PurchaseContract Confirmation Service is not triggered
 - [2050740](#) - Header conditions not created using PurchasingContractERPReq
 - [1999276](#) - PurchasingContractERPRequest_V1: gives error Reduce number of hierarchy levels to a maximum of four even if the hierarchy level is less than four
 - [1596980](#) - Pricing error SE377 for CCM reference

- [1584142](#) - PurOrdERPReqIn_V1: Error in CashDiscountTerms
- [2112855](#) - BAPI: Error condition does not clear between processing for material and service items combination in SAP EHP 4 and above.
- [2020660](#) - Update Termination in ME_UPDATE_DOCUMENT (POEXT) might require implementation if it is not already installed and errors are generated when changing or updating a PO.
- [2372821](#) - Service Purchase Order transfer from ERP to SAP Business Network fails. You require this SAP Note only if the standard field **SRVMAPKEY** is not activated in your SAP ERP system and the SAP Process Integration mappings fail. The standard field **SRVMAPKEY** in the SAP Table ESLL stores service purchase order Item ID information. If the **SRVMAPKEY** is unavailable, the Item ID does not populate the item ID correctly.
- Maintain the SRVMAPKEY in ARBCIG_TVARV. Configure this setting only if your service purchase order transfer from SAP ERP or SAP S/4HANA to SAP Business Network fails. This error usually occurs when the Business Function LOG_MM_P2PSE_1 is not active on your SAP ERP or SAP S/4HANA system. You need to also implement the SAP Note [2372821](#) only if the standard field SRVMAPKEY is not activated on your SAP ERP or SAP S/4HANA system. This setting and SAP Note is applicable to service purchase orders and contracts.
- (Applicable if you are using SAP Ariba Contracts with service interfaces) Ensure that you have the business process PURCONT001. For more information, see [Assigning a Caller to a Business Process in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

Request for quotations with SAP Business Network and SAP Business Network Discovery

- The SAP Business Network Commerce Automation solution must be deployed in a new site (realm), RFQ functionality cannot be used in existing SAP Ariba Sourcing sites (realms). Suppliers must be registered on the SAP Business Network for suppliers to participate in RFQ events.
- To invite multiple suppliers to an RFQ event, buyers can create a vendor in SAP ERP or SAP S/4HANA as a workaround the SAP ERP or SAP S/4HANA limitation. For example, create an "Ariba Marketplace Vendor" and configure it to stop sending any vendor information in the Quote Request cXML document. Buyers must maintain the value mappings for multiple vendors in the Cross Reference section of the SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Configure the required RFQ event rules. For more information, see [Configuring Quote Automation in SAP Business Network in Quote Automation Configuration and Integration Guide](#).

Service Long Text and Long Text for Line in service specifications

General prerequisites

- Ensure that you have the required rules and configurations on your SAP Ariba Sourcing, SAP Ariba Contracts, SAP Business Network, and SAP Integration Suite, managed gateway for spend management and SAP Business Network to send service line items for service specifications in the QuoteRequest and QuoteMessage documents.

Prerequisites for SAP Ariba Sourcing

- Ensure that you enable the following to process the service item types and alternative service specification on your SAP Ariba Sourcing system:
 - Alternate Service Line Type (CUP-19300)
 - Sourcing - Complex Service Specification and Integration (UP-18784)
 - Sourcing - Complex Service Hierarchy and Integration (UP-5387)
 - Sourcing - Complex Service Hierarchy and Integration Backend (UP-7455)

- cXML New request format supported (cXML New Format)
- cXML Version 34 Added Features
- Application.ACM.ComplexServiceHierarchy.Enabled

To enable this feature, have your Designated Support Contact log a service request. An SAP Ariba Support representative will follow up to complete the request.

Support for direct integration to meet data residency requirements

- **Prerequisites for SAP Ariba Contracts and SAP Ariba Sourcing**
 - This feature is controlled by the parameter **Enable direct connection to SAP Integration Suite, managed gateway**. This parameter is self-service and can be enabled by customer administrators from the Intelligent Configuration Manager user interface.
 - The **Enable/Disable cXML events for cloud integration gateway** task must be enabled by customer administrators from the **Cloud Integration Gateway** page in the **Integration Manager** workspace.
 - The **Business System ID** feature must be enabled.
For more information, see [KB0396066 - CF-6889: Business System ID vendor details](#).
 - The supplier master data must be integrated with SAP ERP or SAP S/4HANA either manually or through SAP Ariba Supplier Lifecycle and Performance using SAP Integration Suite, managed gateway for spend management and SAP Business Network.
 - The SAP Ariba Sourcing feature, **Confirmation Message from External System**, must be enabled.
- **Prerequisites for SAP Integration Suite, managed gateway for spend management and SAP Business Network**
 - Enable the **SRC_DIRECT** parameter for direct integration between SAP ERP or SAP S/4HANA and the SAP Ariba solution, bypassing SAP Business Network. See [Maintaining the Parameter for Enabling the Direct Integration Between SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network and SAP Ariba Strategic Sourcing Solutions](#).

Note

After enabling the parameter, you need to run the interface setup program. See [Configuring the Connections to SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#).

- Set up cross reference parameters, see [Setting Up Cross Reference for Direct Integration to Meet Data Residency Requirements](#).
- Configure RFC destination with **Path Prefix for SAP Ariba Applications integration** as /cx/
receiveERPIDOC. See [Creating an RFC Destination for SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#).

Backward Compatibility

If you are using SAP Ariba cloud integration releases, the hierarchical display of service line items necessitates changes in SAP ERP or SAP S/4HANA and the Ariba Network adapter for SAP NetWeaver that affects how transmission of purchase orders, change orders, and update orders are handled. These changes are not backward compatible with previous releases.

① Note

You must remove previously existing change order configuration from your SAP Ariba solutions. If you also have change order transaction customizations and want to continue to use them, they must be migrated to purchase order transactions instead.

Restrictions

Request for quotations and contracts

- SAP ERP or SAP S/4HANA only accepts awarded quote messages to generate purchase orders or outline agreements (contracts). Awards are not generated within SAP ERP or SAP S/4HANA.
- Network vendor master data integration is not supported.
- The update operation for request for quotations transfers only line item changes, not header-level changes, into the Sourcing Request.
- SAP ERP or SAP S/4HANA can only create purchase orders or outline agreements from SAP Ariba Sourcing awards.
- Attachments are not transferred to purchase orders in SAP ERP or SAP S/4HANA.
- SAP Ariba Sourcing does not support deletion of the entire contract after it has been published. You can only delete the line items in a contract.
- Although SAP Ariba Contracts allow you to terminate a contract, information that the contract is terminated is not sent correctly to SAP ERP or SAP S/4HANA. As a result, SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support integration for terminated contracts.
- The advanced pricing conditions feature is applicable only for customers with SAP ERP system version EHP4 or higher.
- SAP Ariba Sourcing and SAP Ariba Contracts do not support service line items with multiple price validity periods and scales.
- SAP Ariba Sourcing and SAP Ariba Contracts do not support advanced pricing conditions with graduated scales in outline agreements.
- SAP Ariba Sourcing and SAP Ariba Contracts do not support pricing condition types with percentage (%) as the calculation type.
- The end-to-end integration of SAP Ariba Sourcing or SAP Ariba Contracts with SAP ERP or SAP S/4HANA through SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support deleting validity periods and scales.
- SAP Ariba Sourcing and SAP Ariba Contracts do not support advance pricing and simple pricing conditions together on a single line of contract.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support awarding a single sourcing event to multiple suppliers for QuoteMessage integration.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support legacy contracts originating from SAP ERP or SAP S/4HANA.
- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not validate the validity period for advanced pricing conditions in the QuoteMessageContract document.

Request for quotations and contracts with service items

- The last level outline must contain at least one service specification. For example, if the service item has a four-level hierarchy, ensure that you do not leave the fourth-level hierarchy blank. The last service item in a request for quotation containing hierarchies cannot be left empty.
- This functionality requires SAP ERP 6.0, EHP 4 and greater. Attempting to create a purchase order with a 5-level deep hierarchy when using EHP3 or lower generates an error message in PO **Message** tab.
- Request for quotations cannot have values for the spend limits (Overall limit and Expected value).
- The pricing conditions are only supported at the line item-level in purchase orders.
- The contracts support pricing conditions only at the service specification level.
- Although SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the header-level and line-item level text description, users on SAP Ariba Sourcing can only view the text descriptions for internal and external users at the line-item level. SAP Ariba Sourcing does not allow users to view the text descriptions for internal and external users at the header level.
- SAP ERP or SAP S/4HANA supports the different item categories for material and service line items. However, SAP Ariba Sourcing only supports standard and service line items (material items and service items-category D). Customers can use the other item categories by customizing and making the necessary custom changes.
- An alternative service specification number must always be of a higher sequence. When you add service specifications to a service line, ensure that you first add a **Basic Line** before adding an alternative service specification. Ensure that you mark the service specification as an alternative service specification with a higher line number. For example, you have service specifications with line numbers 10, 20, and 30. When you specify an alternative service specification, you can specify line number 20 as an alternative service specification to line number 10 service specification. Similarly, line number 30 can be an alternative to service specification with line numbers 10 or 20. However, line number 10 cannot be marked as an alternative service specification to line number 20 or 30.
- When you use advanced pricing conditions, SAP Ariba Contracts or SAP Ariba Sourcing does not support the following:
 - DiscountPercentage
 - SurchargePercentage
- Line text for child items, including comments, is not supported in **QuoteMessageOrder** transactions for service purchase order.

Request for quotations with SAP Business Network and SAP Business Network Discovery

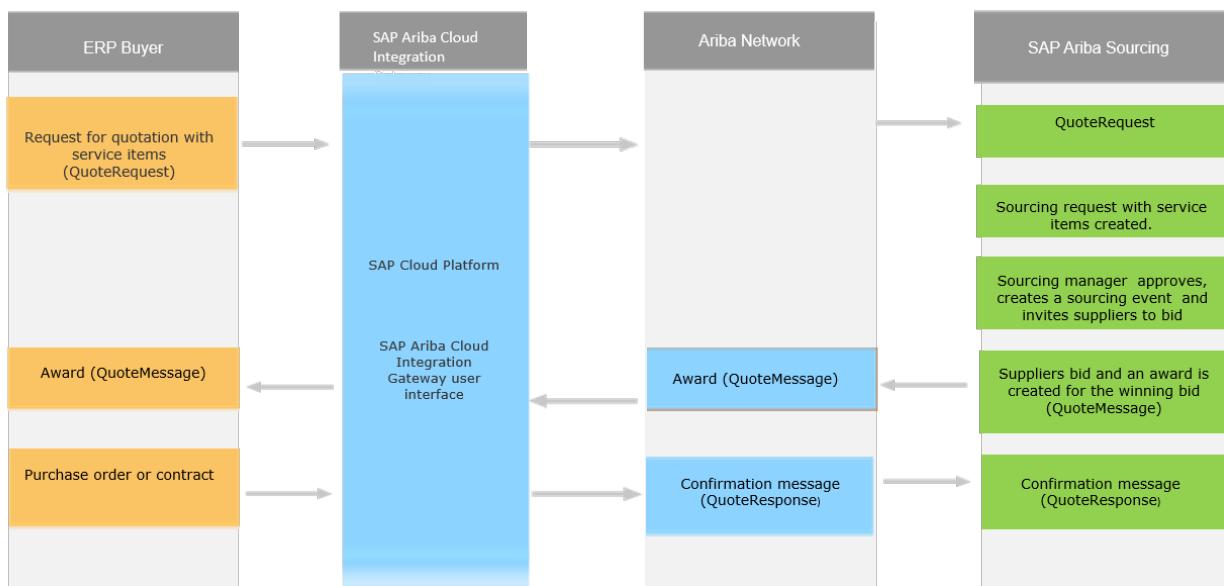
- SAP Integration Suite, managed gateway for spend management and SAP Business Network only supports the ability to invite one specific supplier using the invited supplier method.
- The SAP Integration Suite, managed gateway for spend management and SAP Business Network only supports the ability to send the lead bid back to SAP ERP or SAP S/4HANA and does not support the ability to send all bidding results to SAP ERP or SAP S/4HANA.
- After SAP Ariba sends back the bidding results, users can only create purchase orders in SAP ERP or SAP S/4HANA.
- Quote attachments are not transferred to purchase orders.
- One-time vendor option does not support the Purchase order processing in SAP Business Network Commerce Automation.

- SAP Ariba does not support the ability to make changes after the RFQ event is published. If changes are made in SAP ERP or SAP S/4HANA after the RFQ event is published, the event will fail and SAP Ariba will send an email notification to the SAP ERP or SAP S/4HANA initiator.

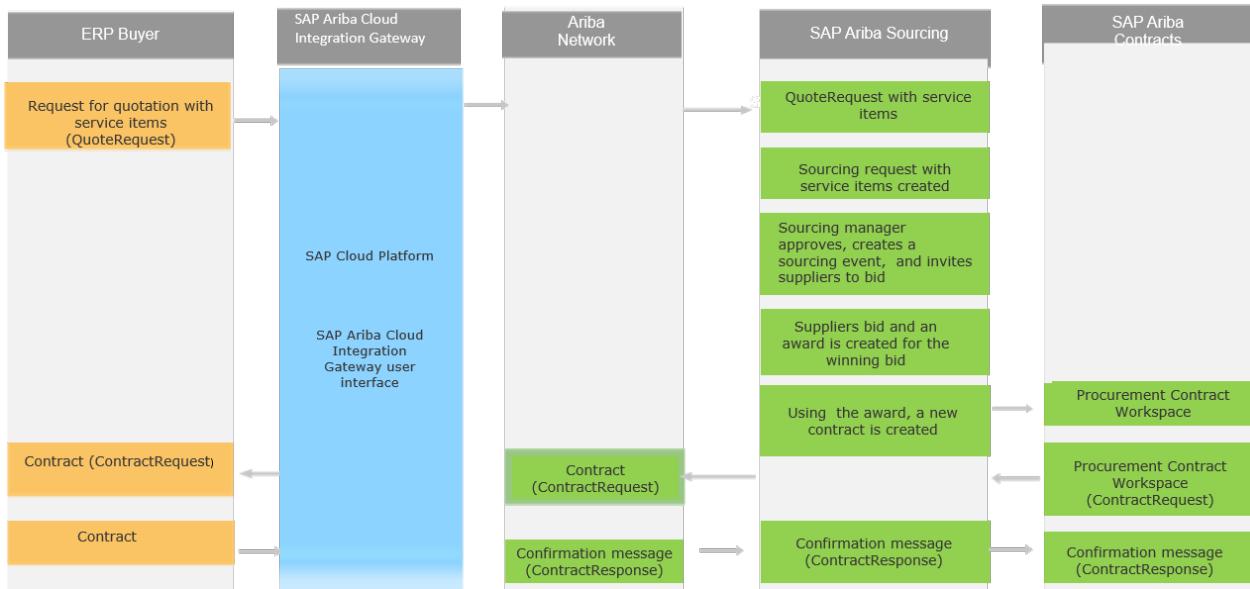
Workflow for Request for Quotation

The following describes the steps on how SAP Integration Suite, managed gateway for spend management and SAP Business Network processes requests for quotation to create purchase orders or contracts on the SAP ERP system:

SAP Ariba Sourcing - Request for quotation



SAP Ariba Contracts - Contracts



1. A buyer creates a Request for Quotation (RFQ) having material items or service items on the SAP ERP system. SAP Integration Suite, managed gateway for spend management and SAP Business Network creates a cXML QuoteRequest document that contains specific information required to create a sourcing request for material or service items and sends it to SAP Ariba Sourcing through SAP Business Network. To generate a sourcing request, a Request for Quotation created in SAP ERP must be defined as a Strategic Sourcing document type. SAP ERP requires a mandatory vendor field in Requests for Quotation, so a placeholder supplier is provided for strategic sourcing documents. Strategic sourcing documents are converted into a cXML quoteRequest document, and the placeholder vendor information is automatically discarded during conversion.

ⓘ Note

If users create a custom `StrategicSourcingDocType` and select that custom document type when creating a Request for Quotation, then they must maintain the same custom document type in SAP Integration Suite, managed gateway for spend management and SAP Business Network cross reference section.

2. SAP Ariba Sourcing processes the QuoteRequest and creates a sourcing request. A sourcing manager approves the request, creates a sourcing event, and invites suppliers to participate based on the criteria specified in the QuoteRequest document and the sourcing request template.
3. Suppliers bid on the sourcing event and SAP Ariba Sourcing creates an award for the winning bid. SAP Ariba Sourcing sends the award as a QuoteMesage back to the ERP system.
4. Based on the information in the QuoteMesage for the award, SAP Integration Suite, managed gateway for spend management and SAP Business Network creates a purchase order or contract on the SAP ERP system.
5. SAP Integration Suite, managed gateway for spend management and SAP Business Network sends a confirmation to SAP Ariba Sourcing after creating a purchase order or contract.
6. When SAP Ariba Contracts sends a contract with service items, SAP Integration Suite, managed gateway for spend management and SAP Business Network creates a contract on the SAP ERP system and sends a response confirming the creation of the contract on the SAP ERP system. SAP Integration Suite, managed

gateway for spend management and SAP Business Network also sends a confirmation when the contract has been updated or deleted on the SAP ERP system.

The confirmation message contains the purchase order ID or contract ID and the status code. A status code of 200 when received successfully or a status code of 503 when there is a failure to create the purchase order or contract.

7. SAP Ariba Sourcing processes update `QuoteRequest` documents as follows:

- If an update `QuoteRequest` is received and the sourcing request has not been approved, SAP Ariba Sourcing makes the requested changes directly to the line items in the sourcing request and sends a notification to the active team members of the sourcing request.
- If an update `QuoteRequest` is received and the sourcing request is approved and the event is any non-final state (any state other than awarded, canceled or closed), SAP Ariba Sourcing creates a new new version of the sourcing event and stores the updates and send an e-mail notification to the team members. The team member can choose to accept the changes or ignore them.
- If an update `QuoteRequest` is received and the event is a final state (awarded, canceled or closed), SAP Ariba Sourcing rejects the cXML request and sends a notification to active team members of the event.

8. SAP Ariba Sourcing processes delete `QuoteRequest` documents as follows:

- If a delete `QuoteRequest` is received and the sourcing request has not been approved or it has been approved but no sourcing event has been created, SAP Ariba Sourcing cancels the sourcing request and sends a notification to active team members of the sourcing request.
- If a delete `QuoteRequest` is received and the sourcing request is approved and the event is any non-final state (any state other than awarded, canceled or closed), SAP Ariba Sourcing sends an e-mail notification to the sourcing event team members indicating that a request to cancel the sourcing event was sent from SAP ERP.
- If a delete `QuoteRequest` is received and the event is a final state (awarded, canceled or closed), SAP Ariba Sourcing rejects the cXML request and sends a notification to active team members of the event.

Buyers can create a sourcing event or contract line items document (CLID) with multiple service line items directly from SAP Ariba Sourcing or SAP Ariba Contracts. These sourcing events do not need an associated `QuoteRequest` from the SAP ERP system.

Integration Support for SAP Ariba Spend Analysis

For more information about configuring the integration of SAP Ariba Spend Analysis, see [Integration Support for SAP Ariba Spend Analysis in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

[Sending Information from Purchase Orders and Invoices to SAP Ariba Spend Analysis \[page 353\]](#)

[Prerequisites and Restrictions \[page 354\]](#)

Sending Information from Purchase Orders and Invoices to SAP Ariba Spend Analysis

Buyers integrated with the SAP Ariba Spend Analysis solution and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send information about purchase orders and invoices available

on the SAP ERP or SAP S/4HANA on-premise system to SAP Ariba Spend Analysis through SAP Integration Suite, managed gateway for spend management and SAP Business Network. Buyers can also send the following credit memos, service purchase orders and invoices to SAP Ariba Spend Analysis:

- Credit Memo
- Non-PO invoice
- Invoices with unplanned service lines
- S-Based IV invoice
- Non S-Based IV invoice

Buyers can send the spend information from their ERP systems to SAP Ariba Spend Analysis using the custom date range and time period load events.

The spend information that SAP Integration Suite, managed gateway for spend management and SAP Business Network sends SAP Ariba Spend Analysis also includes the custom flex fields and dimensions. Customers can run the report to send the information about the custom flex fields and dimensions from their SAP ERP or SAP S/4HANA system to SAP Ariba Spend Analysis. SAP Integration Suite, managed gateway for spend management and SAP Business Network provides the `BAdI ARBCIG_SV_FLEXDIMENSIONS` and methods that customers can use to customize the flex dimensions.

SAP Ariba processes the spend data records as follows:

- When buyers import the spend data for the first time, SAP Ariba recommends that you first run using the custom date range. Customers can use the time period on a subsequent run. Customers can use the schedule task to import all the data from the SAP ERP to the SAP Ariba Spend Analysis.
- When buyers run each of the subsequent load events, SAP Ariba only imports the newly added data and updates the changed values for the existing data. If buyers delete any of the files containing the delete indicator, SAP Ariba imports the deleted data in a separate .csv file.

Buyers can specify the filter criteria for the date period, batch file size, and set the range for fields in the purchase order or invoice before sending the spend information from the SAP ERP or SAP S/4HANA system.

Buyers can view the spend information that failed on the SAP ERP or SAP S/4HANA using the **SLG1** or **SRT_MONI**, or in the **Transaction Tracker** on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. When there is an error, buyers can do one of the following:

- Resend the spend information to SAP Ariba Spend Analysis using the report, `ARBCIG_RESEND_BATCH_EXTRACT`
- Reprocess the spend information using the **Transaction Tracker** on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal

Note

SAP Ariba recommends that you run the SAP Ariba Spend Analysis report in the background.

Prerequisites and Restrictions

Prerequisites

SAP ERP or SAP S/4HANA

SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network
Overview Guide

- Ensure that you export the master data from SAP ERP or SAP S/4HANA to SAP Ariba Spend Analysis using the SAP Ariba Master Data Native Interfaces (MDNI).
- Before you run the report `ARBCIG_SPENDVISIBILITY_EXPORT` or use the transaction code, `ARBCIG_SPENDANALYSIS` to send the spend information for purchase orders and invoices from the ERP systems to SAP Ariba Spend Analysis, check whether the data available on the SAP Ariba Spend Analysis system is in sync with the data available on the SAP ERP or SAP S/4HANA system. Also, ensure that you first run the report using the custom date range, and then later you can schedule the report based on the time period.
- Before you import the spend data, ensure that you copy the field map entries from client 000 to your production client. This step is required only for importing the spend data from SAP Ariba Spend Analysis. For more information, see the section [How to copy content from client 000 in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Installation Guide](#).
- Configure the external commands for the operating systems. You must configure the commands on SAP ERP or SAP S/4HANA and associate them with the operating system commands. For more information, see the section, [How to configure external commands for operating system in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Ensure that you have the following document types to send the spend information to SAP Ariba Spend Analysis:
 - `SpendAnalysisPurchaseOrderImport`
 - `SpendAnalysisInvoiceImport`
 - `SpendAnalysisConfirmation` to receive the confirmation response from SAP Ariba Spend Analysis
 - `SpendAnalysisFlexDimensionImport` to send the flex dimensions master data from SAP ERP to SAP Ariba Spend Analysis

Restrictions

- SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support service purchase orders with service item hierarchies.
- SAP ERP or SAP S/4HANA does not support changes to values in invoices. As a result, the custom date range or time period load events do not include the invoice values that changed.
- Add-on for SAP ERP and SAP S/4HANA allows only one contract to be pulled when there are multiple contracts in a single line of a purchase order.

Support for Direct Integration to Meet Data Residency Requirements

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network 2208 (Q3 2022) release, direct integration between either SAP Ariba Contracts or SAP Ariba Sourcing and SAP Integration Suite, managed gateway for spend management and SAP Business Network to meet national data residency requirements is supported. This enables bidirectional data flow between SAP ERP or SAP S/4HANA and SAP Ariba Strategic Sourcing solutions, bypassing SAP Business Network. This allows customers to comply with strict national data residency regulations, as SAP Business Network is hosted in the US data center.

For instance, customers in the jurisdiction of the Kingdom of Saudi Arabia data center are governed by stringent national data residency requirements, under which no data can be sent outside the country. This feature ensures that cXML transactions happen only between the SAP Ariba solution and SAP Integration Suite, managed gateway for spend management and SAP Business Network, which are both hosted in the Kingdom of Saudi Arabia data center.

This feature supports the following cXML document types:

Outbound document types sent from SAP ERP or SAP S/4HANA to SAP Integration Suite, managed gateway for spend management and SAP Business Network :

- QuoteRequest
- PurchasingContractConfirmation(ContractStatusUpdateRequest)
- QuoteMessageConfirmation(ContractStatusUpdateRequest)

Inbound document types sent to SAP ERP or SAP S/4HANA from SAP Integration Suite, managed gateway for spend management and SAP Business Network :

- ContractRequest
- ContractRequestServices
- SchedulingAgreement
- QuoteMessageContract
- QuoteMessageContractServices
- QuoteMessageOrder
- QuoteMessageSchedulingAgreement

With this feature, both inbound and outbound cXML transactions are authenticated using certificate-based authentication.

Note

This feature is supported for SAP Ariba solutions integrated with a single ERP (backend) system.

[Prerequisites \[page 343\]](#)

Related Information

[Setting Up Cross Reference for Direct Integration to Meet Data Residency Requirements](#)

[Maintaining the Parameter for Enabling the Direct Integration Between SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network and SAP Ariba Strategic Sourcing Solutions](#)

[Setting Up the Private Tenant to Connect with the SAP Ariba solutions](#)

[Creating an RFC Destination for SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#)

Support to Publish Public Procurement Notices on an Approved External Portal

Buyers can enter procurement details in the public procurement notices associated with a public sector event and publish the notices on the Tenders Electronic Daily (TED) portal. To publish public procurement notices to the TED portal, the buyers can integrate SAP Ariba Strategic Sourcing Suite and Tenders Electronic Daily (TED) using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Public procurement notices contain information such as the bid items, eligibility criteria, location, time frame, and so on. You can use the following document types to monitor public procurement notices in the **Transaction Tracker** of SAP Integration Suite, managed gateway for spend management and SAP Business Network:

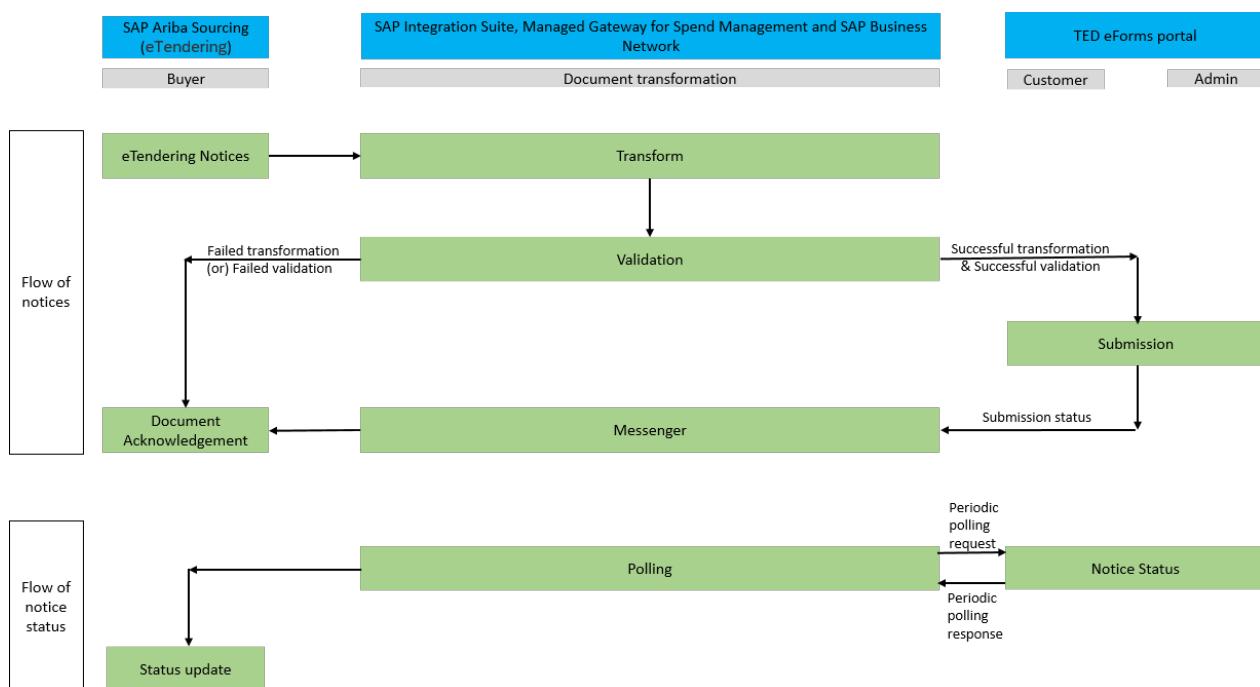
Notice	Document Type
Prior Information Notice	PriorInformationNotice
Contract Notice	ContractNotice
Contract Award Notice	ContractAwardNotice
Periodic Indicative Notice - Utilities	PINUtilities
Contract Notice - Utilities	CNUtilities
Contract Award Notice - Utilities	CANUtilities
Corrigendum Notice (Change Notice)	Corrigendum
Prior information notice used only for information — general directive	PINGeneralDirective
Periodic indicative notice used only for information — sectoral directive	PINSectorialDirective
Prior information notice used to shorten time limits for receipt of tenders — general directive	PINShortenTimeLimitGeneralDirective
Periodic indicative notice used to shorten time limits for receipt of tenders — sectoral directive	PINShortenTimeLimitSectorialDirective
Prior information notice used as a call for competition — general directive, standard regime	PINCallForCompetitionGeneralDirective
Periodic indicative notice used as a call for competition — sectoral directive, standard regime	PINCallForCompetitionSectorialDirective
Contract notice — general directive, standard regime	CNGeneralDirective
Contract notice — sectoral directive, standard regime	CNSectorialDirective
Contract award notice — general directive, standard regime	CANGeneralDirective
Contract award notice — sectoral directive, standard regime	CANSectorialDirective

① Note

The notices will be sent as an input in JSON format and will be transformed to an output in XML format by SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal

The following diagram illustrates the flow of information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, managed gateway for spend management and SAP Business Network, and the TED eForms portal.



- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal
- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal
- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal
- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal

- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal
- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal
- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal
- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal
- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal
- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal
- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal
- Flow of Information between SAP Ariba Strategic Sourcing Suite, SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network, and TED eForms Portal

Supporting Attachments and Comments

Buyers can add attachments and comments to the transaction documents that are being sent or received through SAP Integration Suite, managed gateway for spend management and SAP Business Network. To send attachments and comments, configure the required settings on the ERP system. SAP Ariba provides BAdIs to customize attachments and comments.

ⓘ Note

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2102 (Q1 2021), improvements are made considering line breaks in the long and multi-line comments, which the buyers send to SAP Business Network as part of the following outbound transactions, to support better readability:

- Order enquiry
- ERP-initiated invoice
- ERP-initiated service entry sheet
- Ship notice (component ship notice)
- Payment remittance
- Service sheet (for deleting service sheet from SAP ERP)
- Service sheet response
- Quote request

SAP Ariba recommends that you use a unique name for the attachment to ensure transmission of attachment without errors. You can add a prefix or suffix to the attachment name to make the attachment name unique.

The following restriction is applicable for attachment file names:

- The file name for the attachment that contains spaces displays an underscore instead of the space in the file name. For example, if you send a purchase order with an attachment having the file name for attachment as Purchase Order.txt, SAP Ariba converts the file name to Purchase_Order.txt.

ⓘ Note

If you are a customer using SAP Integration Suite, managed gateway for spend management and SAP Business Network release SP0006 and lower, buyers and suppliers see a plus sign instead of the underscore to the file name for the attachment.

Transactions Supporting Attachments and Comments

This section explains if the transaction on each solution supports attachments and comments.

The following table lists the transactions on SAP Business Network:

Transactions	Support attachments	Support comments	Document type
Credit memo	Yes	Yes	CreditMemoMsg
Ship notice request	Yes	Yes	DsptchdDelivNotifMsg
FI-based ERP-initiated invoice	Yes	Yes	ARBCIG_FIDCC2
Invoice	Yes	Yes	ARBCIG_INVOIC
Liability transfer	Yes	Yes	LiabilityTransfer
MM-based ERP-initiated in- voice	Yes	Yes	ARBCIG_GSVERF
Order confirmation	Yes	Yes	ARBCIG_ORDRSP
Order enquiry	Yes	Yes	ARBCIG_ORDENQ
PayMeNow	Yes	Yes	ARBCIG_FIDCCH
Payment remittance request	Yes	Yes	ARBCIG_REMADV
Purchase order	Yes	Yes	ARBCIG_ORDERS
Remittance advice	Yes	Yes	RemittanceAdvice
Scheduling agreement release	Yes	Yes	ARBCIG_DELINS
Service sheet	Yes	Yes	ServiceEntrySheetRequest
ERP-initiated service sheet	No	Yes	ERPServiceEntrySheetRe- quest
Service sheet response	No	Yes	ServiceEntrySheetResponse
Advance Ship notice	Yes	Yes	DsptchdDelivNotifMsg
Component consumption re- quest	Yes	No	ComponentConsumption
Component acknowledgment	No	No	ComponentAcknowledgement
Document status update	No	No	DocumentStatusUpdateRe- quest
Invoice status update	No	No	InvoiceStatusUpdateRequest
Payment proposal	No	No	PaymentProposalRequest
Product activity message	No	No	ProductActivityMessage

Transactions	Support attachments	Support comments	Document type
Product replenishment message	No	No	ProductReplenishment
Receipt request	No	No	ReceiptDetailRequest

ⓘ Note

SAP Integration Suite, managed gateway for spend management and SAP Business Network only supports characters that are compliant with ANSI standard for the names of the attachments received from SAP Business Network.

The following table lists the SAP Ariba Procurement solutions supported messages:

Messages	Support attachments	Support comments	Document type
Advance Payment	No	No	AdvancePaymentExportRequest
Master data request	No	No	AribaMasterDataRequestMessage
Catalog upload request	No	No	CatalogUploadRequest
Language	No	No	LanguageExports
Payment Export	Yes	No	PaymentExportRequest
Purchase Order	Yes	Yes	PurchaseOrderExportRequest
Purchase Order Cancel	No	No	PurchaseOrderCancelExportRequest
Purchase Order Change	Yes	Yes	PurchaseOrderChangeExportRequest
Purchase Order Close	No	No	PurchaseOrderCloseStatusExportRequest
PurchaseOrderERPHeader-StatusAsynclImportRequest	No	No	PurchaseOrderERPHeader-StatusAsynclImportRequest
Purchase order header status	No	No	PurchaseOrderHeaderStatus
Receipt export request	No	No	ReceiptExportRequest
Derivation	No	No	RequisitionDeriveAccountingExportRequest
Real time budget export	No	No	RequisitionExportRequest
Service sheet	No	No	ServiceSheetExportRequest

Messages	Support attachments	Support comments	Document type
Service sheet response	No	No	ServiceEntrySheetResponse

The following table lists the transaction for SAP Ariba Sourcing:

Transaction	Support attachments	Support comments	Document type
Request for quotations	Yes	Yes	QuoteRequest
Supplier bid	Yes	No	QuoteMessage
Buyer award	Yes	No	QuoteMessage
Contracts	No	Yes	ContractRequest

ⓘ Note

SAP Ariba Sourcing QuoteRequest documents only support comments for external files attached to RFQs. The Comments element must contain an Attachment element for including external files.

Using Test Central for Buyer Regression Testing

With the Test Central framework, buyers can automate end-to-end testing of use cases using previously generated documents or transactions, re-run the test cases, and generate a report on results. Using Test Central benefits buyers in:

- Reducing testing timelines and accelerating regression testing
- Evaluating the impact of upgrades using support packs, customizations, and XSLT mapping changes

The test regression functionality available on the **Test Central** page helps you perform regression testing of business flows and/or transactions. You can create and run regression tests based on documents or transactions you have created manually. This helps validate the regression scenarios or baseline use cases after you do the following:

- Perform system upgrade
- Update mapping
- Customization

ⓘ Note

Test Central is supported for the **SAP Ariba Commerce Automation** subprocess of SAP Business Network.

For example, you update the mapping of a transaction. Now, you want to check the output of the transaction based on the new mapping. For this, you must first choose an existing regression test suite containing a test case, such as purchase order, that impacts the mapping. Then, you must re-run the test suite. The latest test run would mark up the mapping changes in the baseline and target XML files.

Running regression testing

To perform regression testing in Test Central, you must first create a test suite. You can determine a business flow and/or a transaction that you have run manually, as the base for testing. Then, you can do the following and perform the search operation:

- Select the originating document type of the base transaction
- Enter the transaction number (document number) of the base transaction

This will list the test cases for all the subsequent transactions.

ⓘ Note

Currently, Test Central supports the following originating cXML document types:

- OrderRequest (for purchase order)
- InvoiceDetailRequest

For more information about managing regression test suites, see [Managing Regression Test Suites in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

After creating the test cases for all the transactions, you can load them to create the test suite. For a test suite that doesd not contain any test cases with manual steps, you can see that the test suite runs by default and creates the follow-on documents in the order of the original, manual transactions.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network 2208 (Q3 2022) release, the buyers can also include manual steps in one or more test cases loaded to the test suite. These manual steps are added through the advanced configuration of the test suite. This configuration enables the buyers to perform a manual activity, which is an essential part of running a test case, outside Test Central. Test Central holds the step until the buyer completes the manual activity.

After you run a test suite, you can view the following details of the test cases in the test suite:

- The order in which the test cases are run
- Document type of each test case
- The after-mapping file of the manual transaction. You can view this information in the **BaseLine XML** column.
- The current status of the test case. You can view the status **Scheduled**, **In Progress**, **Passed**, **Update**, **Failed**, and **Canceled**.
- The document number (transaction number) of the test case
- Error log. Only the updated or failed test cases display the error log. For the failed test cases, you can view the detailed error log. For the updated test case you can view the difference between the baseline and the target XML files.

For more information about managing regression test cases, see, [Managing Regression Test Suites](#)

Knowing essential concepts about Test Central

Knowing the following terms and basic concepts will help you in managing test suites and test cases:

- **BaseLine XML (also known as Source XML)**

The after-mapping file of the transaction that you have created manually. You can click and download the baseline XML file to your local system.

- **Target XML**

The after-mapping file of the transaction that is generated in Test Central.

- **Status of test suites and test cases**

In Test Central, you can view the following status of the tests suites and/or test cases

Scheduled	Indicates the test case that will start next in the sequence.
Passed	Indicates the test case that has finished running successfully.
Update	Indicates the difference between the after-mapping files of the manually created transactions and the transactions created in Test Central. You can view the details in the logs.
Failed	Indicates failures in test cases. You can view the details in the test logs.
In-progress	Indicates the test case that is currently running.
Cancelled	Indicates the test suite and/or test case canceled manually. After a test case is canceled manually, all the follow-on documents are canceled automatically.

- **Test Log**

You can view the **Test Log** field in the details view of a test case in a test suite. In the **Test Log** field, you can view the differences between the baseline and target XML files of the updated or failed test cases.

The following is the sample test log for the updated and the failed test cases:

For an updated test case:

- Expected text value '<expected_value (value_in_BaseLine_XML)>' but was '' at /<hierarchical_order_of_XML_tags_to_change_location>/ (for example, /cXML[1]/Header[1]/To[1]/Correspondent[1]/Contact[1]/PostalAddress[1]/Street[1]/text()[1])
- Removed element '<value_in_BaseLine_XML (for example, 'State')>' from /<hierarchical_order_of_XML_tags_to_change_location>/ (for example, /cXML[1]/Request[1]/OrderRequest[1]/OrderRequestHeader[1]/ShipTo[1]/Address[1]/PostalAddress[1]/State[1])
- Added element '<value_in_baseline_XML (for example, 'Phone')>' at /<hierarchical_order_of_XML_tags_to_change_location>/ (for example, /cXML[1]/Request[1]/OrderRequest[1]/OrderRequestHeader[1]/Contact[1]/Phone[2])

For a failed test case:

- Failed to send document to "<destination (for example, ADDON)>" with status code, "<status_code (for example, 400)>" and error message, "<error_message (for example, Please enter a partner role Instance <transaction_number> of object type <transaction_name> (for example, PurchaseOrder) could not be changed)>".

• Difference between baseline XML and target XML files

Under the **Test Log** section of the view that displays the details of passed or updated test cases, you can view the section **Difference**.

This section helps you compare the difference between baseline XML and target XML files. At the top right of this section, you can see the total number of removals and additions between baseline XML and target XML files. You can also download the baseline and the target XML files from this section.

The baseline XML file displays alongside the target XML file. You can use the vertical scroll bar on the left to go through the XML files displayed. The removals are marked up in red in the baseline XML file. The additions are marked up in green in the target XML file.

ⓘ Note

The **Difference** section is not displayed for failed, canceled, or scheduled test cases.

• Update the baseline XML file

Under the **Difference** section in the details view of an updated or a passed test case, you can see the **Update BaseLine** button. You can use the **Update BaseLine** button to replace the current baseline XML file with the target XML file. You can do so after you compare the baseline and the target XML files and ensure the accuracy of the updates. After updating the baseline XML file, you can use this file for re-running tests in the future.

For more information, see [Replacing the Baseline XML File with the Target XML File for an Updated Test Case](#)

Enabling Test Central

To enable Test Central with SAP Integration Suite, managed gateway for spend management and SAP Business Network in your test environment, you must do the following tasks in the order they are listed:

- Configure global settings for Test Central
- Configure general settings for SAP Business Network in Test Central
- Configure transaction-specific settings for SAP Business Network in Test Central

For more information, see [Configuring Test Central](#).

General recommendations

- You must consider updating baseline XML in the following scenarios:

Transaction	Scenario
ERP-initiated invoice	You observe a mismatch in alphabet cases in the SupplierpartID.
Payment Proposal	You observe differences in the sequence of the tax details order, but the values are intact.
Purchase Order with split accounting (the change operation)	You observe differences in the sequence of accounting distribution segment IDs.

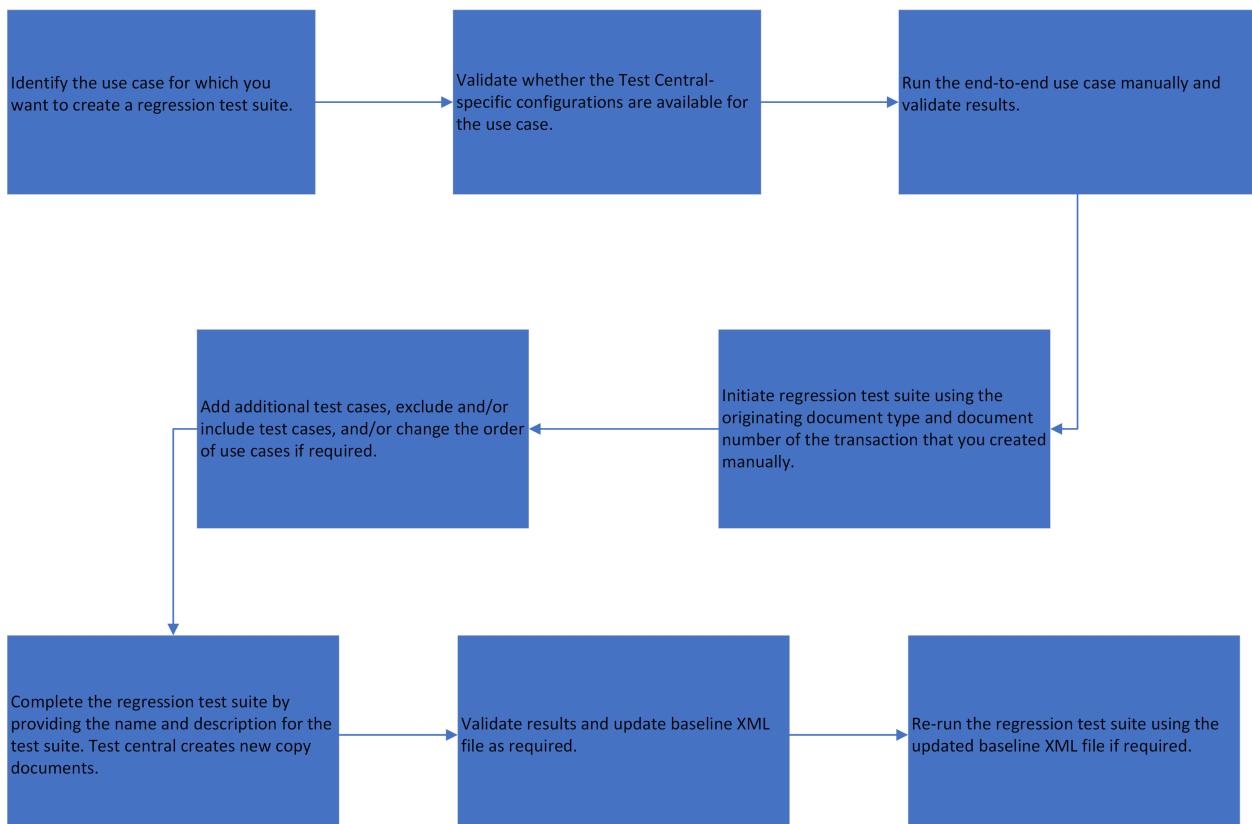
- For rejecting an order confirmation (at the header level), apply SAP Note [890812](#).

To understand the end-to-end process flow for creating a regression test suite in Test Central, see [Process Flow to Test Transactions \[page 368\]](#)

For more information about configuring and managing Test Central for buyer regression testing, see [Using Test Central for Buyer Regression Testing](#) in the SAP Integration Suite, managed gateway for spend management and SAP Business Network configuration guide.

Process Flow to Test Transactions

As a buyer, you can create test suites in Test Central to perform regression testing for specific use cases. The following process flow outlines the steps involved in running a regression test suite:



- You must first identify the use case for which you want to create a regression test suite. For example, you can identify a purchase order process flow to perform regression testing.
- After you identify the use case, ensure that the configurations required for the use case (process flow) are available in Test Central. For example, to perform regression testing for a purchase order process flow, you must ensure that you have performed all the SPRO configuration tasks required for the purchase order transaction and the follow-on documents.
- Then, you must run the use case manually and validate the results. For example, to perform regression test cases for the purchase order process flow, you must run the end-to-end purchase order flow manually and validate the follow-on documents and results. The originating document type of purchase order is OrderRequest. Also, you can see the originating document number (transaction number).
- Now, you can start creating a regression test suite. On the SAP Integration Suite, managed gateway for spend management and SAP Business Network page, navigate to  **Test Central**  **Add Regression Test Suite** and click **New Test Suite**. Then, choose the originating document type, enter the originating document number (transaction number), and perform the search. The search operation lists the test cases. You must load all the test cases into the regression test suite that you want to create. For this, click **Load into Test Suite**. For more information, see [Managing Regression Test Suites](#)
- In the new test suite, you can add additional test cases, exclude and/or include test cases, and change the order of test cases if required. You cannot perform these operations after you create a regression test suite.
- Enter an appropriate name and description for the regression test suite. Then, click **Create Test Suite**. When you create a test suite, it runs by default. The follow on documents are created in the order of the original manual transactions.
- After the test suite is created, you can validate the results. For a passed or an updated test suite, you can update the baseline XML file of the manually created transaction with the target XML file created in Test Central.
- For the subsequent re-runs of the test suite, you can use the updated baseline XML file.

Prerequisites and Restrictions

Prerequisites

- Enable SAP Integration Suite, managed gateway for spend management and SAP Business Network for the supplier account on SAP Business Network to allow suppliers to post cXML documents from Test Central to SAP Business Network. The SAP Integration Suite, managed gateway for spend management and SAP Business Network service provider functions as a sender in cXML to post inbound documents.
- (For using order confirmation) Ensure that the buyer entitlement is configured for the order confirmation transaction. This is to support integration capabilities for the suppliers hosted on SAP Business Network and integrated using SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Apply SAP Note [3071825](#) if you are using the SAP Integration Suite, managed gateway for spend management and SAP Business Network version earlier than 2202 (Q1 2022, SP16).

Restrictions

- Test Central is supported only on the SAP Integration Suite, managed gateway for spend management and SAP Business Network instances hosted on Europe and the US data centers.
- Transactions containing attachments are not supported. The attachments can be:
 - User-added attachment that is part of the payload
 - Invoices containing e-signature content as an attachment
 - URLs for attachments (links for online attachments)
- ERP-initiated invoices are not supported for the service purchase orders containing hierarchy.
- Purchase orders do not support deleting service lines and/or limit lines during the change operation.
- A credit memo against an ERP-initiated non-PO invoice is not supported.
- The following transactions and/or operations are not in scope for the SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2202 (Q1 2022) release:
 - PayMeNow transaction
 - Canceling the payment remittance transaction
 - Deleting line items while creating purchase orders
- Integration of Test Central with SAP Ariba Procurement solutions and SAP Ariba strategic sourcing solutions is not supported.

Working with the Mapping Tool

[About the Mapping Tool \[page 371\]](#)

[Restrictions \[page 374\]](#)

[Support for Formatting Text Descriptions in Mapping Documents \[page 375\]](#)

About the Mapping Tool

The mapping tool allows buyers to access their custom mappings.

SAP Integration Suite, managed gateway for spend management and SAP Business Network allows buyers to retain the format in which they send the transaction documents between SAP ERP and SAP Ariba solutions. SAP Integration Suite, managed gateway for spend management and SAP Business Network receives documents from SAP ERP in a non-cXML format, transforms them into cXML format, and sends them to SAP Ariba solutions. Starting from the SAP Integration Suite, managed gateway for spend management and SAP Business Network June 2019 release (ARBCI1100: SP 0005), buyers can make customizations to the standard mappings by using the mapping tool. When you upgrade to a higher version of SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on, SAP Integration Suite, managed gateway for spend management and SAP Business Network automatically migrates the mappings to the new version of the add-on.

Using the mapping tool, buyers can:

- Add, edit, and delete custom mappings
- Deploy, undeploy, and manage versions of the custom mappings
- Edit an existing version of the mapping and save it as a new version.
- Enter a reason for editing a mapping configuration.
- Deploy an older version of the mapping configuration.
- Add functions to the custom mappings
- Test the custom mappings

Buyers can access the mapping tool from the **Mappings** tab in the **My Configurations** screen.

The **Mappings** tab displays the following:

- **cXML Document Type** - the list of cXML documents (target) transformations associated with the System IDs in your account.
- **Buyer Document Type** - the list of buyer document types (source) used in your account
- **Version** - the version of the add-on used in the document transformation
- **Standard Map** - shows if the standard map is enabled or disabled
- **Custom Map** - the custom mappings available for the document transformation
- **SystemID** - the system ID assigned to the document transformation
- **Actions** - the icons to perform actions such as add, delete, synchronize, test and so on. To know what each of the icons mean, see [Icons Used in the Mapping Tool \[page 373\]](#).

When adding or editing mappings, the **Mappings** tab opens the mapping tool in the **Document Mapper** page that has the following sections:

SystemIds

This section provides a list of system IDs to choose from. You can choose multiple System IDs to associate with the mappings. If you proceed without selecting at least one system ID, the custom mapping that you create will be associated with all the system IDs available in the account.

Document Mapping

This section displays the graphical representation of a mapping for the document types. The source document is on the left side and the target document on the right side. Both the source and the destination documents have the **Structure** and **Occurrence** columns. The **Structure** column displays the elements of the message. The **Occurrence** column displays the permissible (minimum and maximum) occurrence numbers for the element in this message. You can expand some of the elements in the structure by clicking on the node. The elements that have leaf nodes display the child elements and their occurrence. Use the scroll bar for scrolling through the document structures.

You can map elements from the source document to the elements of the destination document.

The mapping lines that connect the source and destination fields have the following characteristics:

- In a selected state, the coloring changes to a blue coloring scheme (light blue for standard mapping lines and a darker blue for custom mapping lines).
- The mapping lines that have functions implemented on them have the function symbol (Fx).
- The mapping lines that have conditions are in a darker color (unselected state: darker grey, selected state: darker blue), and have tooltips that display the conditions.

A color bar displays the various colors used in the mapping line, and displays a description for the colors when you hover over them.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2108 (Q3 2021), buyers can use the enhanced conditional mapping in the mapping tool to do the following:

- Add constant values to target fields based on the condition on source fields.
- In the **Set Condition** dialog box, use the following additional condition operators **operators**, **contains**, **empty**, **exists**, **not equals**, **not contains**, **not empty**, and **not exists**
- In the **Set Condition** dialog box, use the following letter case modifiers **Normalize Space**, **Lowercase**, and **Uppercase**.

Additionally, added the following:

- Added the following options to the submenu that is displayed when you click a mapping line and select **► Functions ► Add Function**:
 - **Add Uppercase Function**
 - **Add Lowercase Function**

- Added the following columns to the **Constants/Conditions** dialog box that is displayed when you click a mapping line and select **Show Constant Values/Conditions**:
 - Operator** - Displays the condition operator that you choose.
 - Modifier** - Displays the letter case modifier that you choose.
- Added the following in the **Edit Choose Configuration** dialog box to set conditions for the source elements:
 - Contains** and **Not Contains** options in the drop-down list in the **Operator** column.
 - Normalize-space**, **Lowercase**, and **Uppercase** checkboxes to choose the letter case modifiers for the source Xpath.

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2205 (Q2 2022), the following changes have been made to the *Conditions* screen:

- A new column, **Identifier** has been added to label a condition or a condition group in ascending order starting with C (for conditions) and G (for condition groups). For example, the first condition will be labeled as C1. The second condition will be labeled as C2, and so on. The first condition group will be labeled as G1. The second condition group will be labeled as G2, and so on.
- Source Expression** and **Target Expression** have been enhanced as follows:
 - An option to edit **Action** is added. Clicking the  icon displays the **Condition Expression** screen where the buyer can use multiple conditions created and group those conditions using the OR, AND, and NOT operators.
 - An option to revert to the default action is added. This deletes the previously assigned source or target expression and reverts the condition to the AND connected logic from previous releases.

Mapping Version Details

- View the following information on the **Mapping Version Details** page:
 - The different versions of mapping configuration.
 - The user who modified and saved the mapping configuration version.
 - The date of modification.
 - A brief description of the changes and the reason for the modifications.

[Icons Used in the Mapping Tool \[page 373\]](#)

Icons Used in the Mapping Tool

Icon Name	Icon	Description
Add		Adds a custom mapping to a document type.
Edit		Opens the edit dialog for an existing custom mapping.

Icon Name	Icon	Description
List Versions		Opens a new dialog listing all the versions of mappings created for this custom mapping.
Delete		Delete the current custom mapping. Only visible if the custom mapping is not deployed.
Test		Opens the mapping testing tool.
Deploy/Undeploy		<p>Deploys or undeploys the custom mapping.</p> <p>Clicking the check mark deploys a custom mapping, and the check mark gets a blue background.</p> <p>If you click the check mark with the blue background, the mappings get undeployed.</p>
Synchronize		<p>Indicates that it is not the latest version of the custom mapping that is deployed.</p> <p>Clicking on the icon will open the sync dialog enabling the user to:</p> <ul style="list-style-type: none"> deactivate (undeploy) the older version of the custom mapping activate (deploy) the current version of the custom mapping cancel

Restrictions

- While creating multiple source or target conditions, if no operator is selected, the AND operator is used by default.
- Buyers can group only a minimum of two and a maximum of ten conditions using OR, AND, and NOT operators. Conditions used to create condition groups cannot be removed or reordered.

The mapping tool does not support the following:

- The IF conditions. However, you can use the source condition, and target condition along with Choose-When functionalities. For more details, see [Adding Conditions to Custom Mappings in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).
- Any type of calculations and number normalization. However, you can leverage the BAdIs available in SAP Integration Suite, managed gateway for spend management and SAP Business Network add-on in SAP ERP.
- Reading PD values and external document XML
- Calling Java functions and external XSDs

- Creating additional template other than the ones to copy the original fields/structures
- Reading anything from the attachment section (when applicable) and building attachments from the XSLT.
- Search and Export mapping options

Support for Formatting Text Descriptions in Mapping Documents

Buyers integrated with all SAP Ariba solutions and SAP Integration Suite, managed gateway for spend management and SAP Business Network can split the text description (comments) sent in transaction documents into multiple lines. Splitting of the text description is helpful when the text fields have lengthy descriptions.

In the mapping file for each transaction, the buyer can specify the parameters for splitting the lines in the text descriptions into multiple lines.

Buyers specify the parameters for the text descriptions to be split in the *Mapping* tab on the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. Buyers can specify the following parameters to split the lines in the text description:

- **Max. Characters:** Allows you to specify the maximum number of characters allowed per line in the text description. This is a mandatory parameter.
- **Delimiter:** Allows you to specify a delimiter to split the line (line breaks) in the text description. This is an optional parameter.

To specify the parameters for splitting the lines in the text description, the buyer must choose the source element and map it to the target element in the mapping file on the *Document Mapper* page. When buyers specify the parameters to split the text description, SAP Integration Suite, managed gateway for spend management and SAP Business Network displays a marker in the mapping file.

Buyer can also edit and delete the parameters for splitting the lines of the text description on the *Document Mapper* page.

Working with Parameters to Split the Text Descriptions

Creating or editing parameters

- You can specify the parameters to split the text description for the target element as follows:
 - If the target element does not have any other function
 - If the target element does not have any **Choose-When** condition in the mapping file.
 - You can specify an additional mapping to the element structure containing the parameters for splitting the lines in the text descriptions. While specifying the mapping, ensure the following:
 - The element does not contain another **For-Each** loop condition.
 - The element cannot contain another set of parameters to split the text description within an existing set of parameters for splitting the lines in the text description.
- However, you can have a set of parameters to split the text description within a **For-Each** loop condition.

- You can specify both the **Max. Characters** and **Delimiter** parameters for the target element. When you specify both the parameters, SAP Integration Suite, managed gateway for spend management and SAP Business Network processes the text descriptions as follows:
 - When the text parameter also includes a **Delimiter** value, and this value is positioned before the number of characters allowed per line, SAP Integration Suite, managed gateway for spend management and SAP Business Network splits the line by the delimiter value and then by the number of characters allowed per line. The text description after the delimiter value is considered as the next line. SAP Integration Suite, managed gateway for spend management and SAP Business Network ignores the delimiter value in the text description.

For example, you specify the following for a text description:

- Text Description value: This is a very, very long text description.
- **Max. Characters:** 21
- **Delimiter:** ,(Comma)

When SAP Integration Suite, managed gateway for spend management and SAP Business Network processes the parameters for splitting the text descriptions, the text description appears as follows:

- Line 1: This is a very
- Line 2: very long text description.

Deleting parameters

Buyers can delete the parameters for splitting the lines of the text description using one of the following options:

- Choosing the **Delete** option in the context menu: This option deletes the text parameters and the marker in the mapping file. This option is available after selecting the target element.
- Deleting the marker in the mapping file: This option deletes both the marker and text parameters for the target element.

Administering Custom Mapping

With this feature, buyers can do the following tasks in the test and production environments in SAP Integration Suite, managed gateway for spend management and SAP Business Network

- Deploy custom mapping
- Upgrade custom mapping to the latest version
- Revert custom mapping to an earlier version
- Undeploy custom mapping

This feature enables buyers to deploy custom mappings in their test and production environment as a self-service. They no longer have to depend on SAP Ariba Support to deploy the custom mappings in their environment.

To deploy and/or undeploy custom mappings, buyers can access the **Extension Framework** tab on the **My Configurations** page. The **Extension Framework** page displays the custom XSLT mappings that are either deployed or are ready to be deployed. On this page, you can view the following details of a custom mapping record:

Format	The buyer document format. This feature supports the buyer document formats, S/4HANA and Add-on
cXML Document Type	The cXML document for the listed mapping or transformation.
Buyer Document Type	The buyer document type used for this mapping or transformation.
Version	The version of the SAP Integration Suite, managed gateway for spend management and SAP Business Network Add-on used in the document transformation.
Description	The description associated with the version.
SystemID	The system ID assigned to the document transformation.
Actions	The log of actions that you have performed for the custom mapping record.
Version Details	The details of the available versions of the custom mapping record.

For more information, see [Viewing Available Custom Mapping Records](#)

The following icons help you perform the tasks such as deploy custom mapping, undeploy custom mapping, and synchronize the version of custom mapping:

Icon Name	Icon	Description
Show Actions Log		<p>Opens a new dialog listing the log of all the actions that you have performed for the custom mapping that you have selected.</p> <p>The following are the typical actions displayed:</p> <ul style="list-style-type: none"> • CREATE • DEPLOY_TEST • DEPLOY_PROD • UNDEPLOY_TEST • UNDEPLOY_PROD <p>Also, see the Restrictions section at Prerequisites and Restrictions [page 379]</p>
List Versions		Opens a new dialog listing all the versions of mappings created for this custom mapping.
Deploy/Undeploy		<p>Deploys or undeploys the custom mapping.</p> <p>Clicking the check mark deploys a custom mapping, and the check mark gets a blue background.</p> <p>If you click the check mark with the blue background, the mappings get undeployed.</p>
Synchronize		<p>Indicates that it is not the latest version of the custom mapping that is deployed.</p> <p>Clicking the icon opens the Data 'out of sync' dialog box where the customers can do the following:</p> <ul style="list-style-type: none"> • Deactivate (undeploy) the older version of the custom mapping • Activate (deploy) the current version of the custom mapping

To view the tasks that you can perform on the **Extension Framework** page, see [Administering Custom Mapping in SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Configuration Guide](#).

[Prerequisites and Restrictions \[page 379\]](#)

Prerequisites and Restrictions

Prerequisites

- Ensure that the buyers who are authorized to deploy and/or undeploy custom mappings have the write permission. By default, all buyers are assigned with the read permission.

Restrictions

- On the **Extension Framework Actions Log** dialog, the action **CREATE** is displayed only for the custom mappings created after the SAP Integration Suite, managed gateway for spend management and SAP Business Network release 2108 (Q3 2021).

Tracking Transaction Documents and Monitoring Error Messages

[About Tracking and Validating Transaction Documents \[page 380\]](#)

[Monitoring Error Messages \[page 380\]](#)

[About Forward Error Handling Support for Inbound Transactions \[page 381\]](#)

[Monitoring Transactions Using the SAP Application Interface Framework \[page 383\]](#)

[Audit Logging of All User Activities \[page 384\]](#)

[Integration and Exception Monitoring with SAP Cloud ALM \[page 385\]](#)

About Tracking and Validating Transaction Documents

SAP Integration Suite, managed gateway for spend management and SAP Business Network allows you to track and validate the transaction documents that you send to SAP Ariba solutions.

SAP Integration Suite, managed gateway for spend management and SAP Business Network allows you to:

- Use the [Transaction Tracker](#) to track the transaction documents that you send and receive from SAP Ariba solutions.
- Use the [Document Validator](#) to perform schema validation, transformation test, and content validation. This tool validates schema and the content of the source document, tests the mapping transformation, and displays the results.
- Use the [Connectivity Tool](#) to test your connection with the SAP Ariba solution.

Monitoring Error Messages

Administrators can view the details of the errors that occur while sending the master data or transactional data from the SAP ERP system to the SAP Integration Suite, managed gateway for spend management and SAP Business Network. View the details of the errors using the following:

- Use the transaction code, SRT_MONI or NACE on the SAP ERP system. For more information, see, [Monitoring Error Messages on SAP ERP](#).
- Use the Transaction Tracker on SAP Integration Suite, managed gateway for spend management and SAP Business Network. For more information, see, [Working with the Transaction Tracker](#).

Starting the release 2102 (Q1 2021), you can reprocess the failed inbound transactions from SAP Business Network or SAP Ariba strategic sourcing solutions in the buyer's SAP ERP or SAP S/4HANA. If you have not used Forward

Error Handling (FEH) or SAP Application Interface Framework (AIF) for message monitoring, you can reprocess the failed transactions directly from the message monitoring transaction (for example, SRT_MONI).

When an inbound transaction from SAP Business Network or SAP Ariba strategic sourcing solutions fails in the buyer's SAP ERP or SAP S/4HANA, the proxy message fails in the message monitoring transaction. Then, a status update request (SUR) message is sent back to SAP Business Network or SAP Ariba strategic sourcing solutions indicating the failure of the inbound transaction. This enables the buyers to correct the errors and reprocess the transaction from the message monitoring tool.

Note

For the failure of inbound transactions because of authorization errors at the buyer's SAP ERP or SAP S/4HANA, a status update request message is not sent to SAP Business Network or SAP Ariba strategic sourcing solutions. However, the proxy message for the inbound transaction fails in the message monitoring tool.

About Forward Error Handling Support for Inbound Transactions

Forward error handling (FEH) functionality allows the monitoring and processing of errors asynchronously on SAP ERP. When a document sent from an SAP Ariba solution to SAP ERP fails for any reason, it can be checked and processed again on SAP ERP. For example, when a ship notice sent from SAP Business Network fails with the message Purchase Order already getting processed, the buyer can process the document again on SAP ERP.

When FEH is enabled, the error message for every failed inbound transaction is transferred to PostProcessing Office (PPO). Status update request (SUR) for the transaction is sent to the sender when the transaction is successful or when the message is discarded.

With FEH enabled and the business processes configured, if the system detects an error in an inbound transaction, the user can read the message and do one of the following:

- Update the required information and reprocess the transaction. For example, if the error is due to a mapping error, the user can edit the payload and process the transaction again. The user can correct the error and reprocess the transaction until it is successful. An SUR is sent to sender when the transaction is successful.
- Reprocess the transaction immediately. For example, if the error is because the purchase order is still open, the user can submit the transaction for reprocessing. An SUR is sent to sender when the transaction is successful.
- Discard the message in FEH if the sender has to take action on the transaction. In this case, a rejection message is sent to the sender as an SUR.

Note

SAP ERP can process errors using the FEH on receiving the contracts with the document category, scheduling agreement from SAP Ariba Contracts.

In case the contract fails on SAP ERP system, SAP ERP does not send a response automatically to SAP Ariba Contracts. To send a response for the error to SAP Ariba Contracts, customers must go to the error entry in the FEH log file and choose **Discard**.

The feature supports the following asynchronous transactions:

- **For SAP Business Network**
 - Component Acknowledgement
 - Component Consumption
 - Credit Memo
 - Despatch Delivery Notification
 - Liability Transfer
 - Product Replenishment Message
 - Quality Notification
 - Ship Notice
 - Remittance Advice
 - Service Entry Sheet
- **For SAP Ariba Sourcing**
 - Purchase Info Record
 - Quote Message
- **For SAP Ariba Contracts**
 - Scheduling agreements

ⓘ Note

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network release version, 2008 (SP 0010) and higher supports forward error handling for transaction document, `QuoteMsgPurchasingContract`.

- **For SAP Ariba Buying and Invoicing**

- Purchase order (create, change, and cancel)
- Goods receipt (create and cancel)
- Advance payment (create and cancel)
- Service entry sheet (create, cancel, and delete)
- Invoice (create)

ⓘ Note

You can view the failed XML documents in the `sxmb_MONI` and `sxi_MONI` transactions. The failed XML documents are indicated using the  icon. For detailed error messages, navigate to the `/n/SAPPO/PPO2` transaction code.

SAP applications use Error and Conflict Handler (ECH) to implement FEH with the use of PPO. The feature is not enabled by default.

Prerequisites

- Ensure that you are on the latest version of SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Activate FEH.
- Enable FEH for SAP Ariba applications.
- Define software components for PPO.
- Define business processes for PPO.

- Define ECH process data.
- Assign ECH to PPO.
- Assign the caller to a business process.

Limitations

- The feature is supported from EHP4 and above.
- The feature does not support inbound idoc transactions.
- The feature does not support purchase requisition (create) transactions for SAP Ariba Buying and Invoicing.

Monitoring Transactions Using the SAP Application Interface Framework

This feature is supported by the following solutions integrated with SAP ERP or SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network:

- SAP Business Network
- SAP Ariba strategic sourcing solutions

Starting SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2011 (Q4 2020) for SAP S/4HANA and SAP Integration Suite, managed gateway for spend management and SAP Business Network, Release 2108 (Q3 2021) for SAP ERP, buyers can monitor the error and the success messages of different transactions using the SAP Application Interface Framework tool. The tool is a messaging placeholder where buyers can monitor the interfaces of different communication types.

Prerequisites

The following prerequisites apply when monitoring transactions using the SAP Application Interface Framework:

- **SAP S/4HANA**

The buyers who have implemented the SAP Application Interface Framework must follow the instructions in the following SAP Notes to use this feature:

- [2939098](#): Customizing SAP Application Interface Framework to integrate with SAP Ariba solutions using SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- [2940759](#): Customizing SAP Application Interface Framework to generate Interface Name and Structure for IDocs to integrate with SAP Ariba solutions using SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- [2939184](#): Send the status update request messages for SAP Integration Suite, managed gateway for spend management and SAP Business Network Interfaces from SAP Application Interface Framework.
- [2952941](#): Customizing SAP Application Interface Framework to integrate with SAP Retail using SAP Integration Suite, managed gateway for spend management and SAP Business Network

- **SAP ERP**

Apply the following SAP Notes:

1. [2608789](#): ABAP Add-on AIF 703: Installation, Upgrade, CSPs.

2. [2646569](#): Post Processing BAdI of AIF Message.

Restrictions

The following restrictions apply when monitoring transactions using the SAP Application Interface Framework:

- **SAP S/4HANA**
 - The feature is not supported on versions lower than SAP S/4HANA 1610.
- **SAP ERP**
 - The feature is not supported on versions lower than:
 - SAP EHP6 for SAP ERP 6.0.
 - SAP Application Interface Framework version 4.0.
 - Cancellation and reprocessing of any error messages for the interface `QuoteMessagePurchasingContract_Async_In_V1` using SAP Application Interface Framework is not supported.

Audit Logging of All User Activities

SAP Integration Suite, managed gateway for spend management and SAP Business Network supports audit logging of all activities performed by a user on the portal. This logged information can be used to monitor user activities to detect and prevent malicious activities or as evidence in case of a breach. Activities on the portal by end-users, administrators, and SAP internal administrators will be logged using the SAP audit kernel service. Administrators can access the audit logs by searching for log details in an audit log search user interface.

Audit logging covers all activites performed by end-users on the portal. It also covers activities performed by administrators on behalf of users. Administrators in customer organizations or SAP internal administrators can view the audit log and identify all actions performed by themselves and other users linked to the account, which is determined by the **SAP Business Network ID**. At any point in time, SAP Integration Suite, managed gateway for spend management and SAP Business Network stores audit log data for the previous 90 days only. All audit log events are stored in UTC time zone.

The navigation panel at the top of the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal has the new **Audit Logs** option in the Admin area. This option is shown only to users with the appropriate administrator role. This option opens a new audit log viewer page to view and download audit logs. On this page, administrators can specify a date range and click **Create Report** to create an audit log report for the date range. The report is displayed in the table, and can be downloaded for further processing.

Access to audit logs is provided as follows:

- Administrators in customer organizations can view audit logs of their organization only.
- SAP internal administrators responsible for SAP Integration Suite, managed gateway for spend management and SAP Business Network can view audit logs of SAP Integration Suite, managed gateway for spend management and SAP Business Network administration tasks only. They will not be able to see a customer's audit logs.

- SAP internal administrators can be given access to a customer's audit logs only if the customer's administrator explicitly makes a request for it. SAP internal administrators can access the audit logs directly using the SAP audit kernel service without entering the portal.

Integration and Exception Monitoring with SAP Cloud ALM

Buyers can use the SAP Cloud ALM for Operations for integration and exception monitoring.

SAP Cloud ALM can be used to monitor SAP Integration Suite, managed gateway for spend management and SAP Business Network integration events and messages that are integrated from SAP Ariba solutions and SAP ERP or SAP S/4HANA. Buyers may configure SAP Cloud ALM to receive alerts when there are errors in the SAP Integration Suite, managed gateway for spend management and SAP Business Network transactions.

Prerequisites

- Buyers must have an active subscription to SAP Cloud ALM solution.
- Integration and exception monitoring needs to be set up on SAP Cloud ALM. For more information, see the [Integration & Exception Monitoring](#) page. Perform the steps relevant to SAP Integration Suite, managed gateway for spend management and SAP Business Network .

Restrictions

Integration and exception monitoring of SAP Integration Suite, managed gateway for spend management and SAP Business Network transactions and events through SAP Cloud ALM is not available for the supplier transactions in SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Exporting Business Data

You can export your business data from SAP Integration Suite, managed gateway for spend management and SAP Business Network to a local system or network location. This is helpful when you switch from one SAP Integration Suite, managed gateway for spend management and SAP Business Network data center to another, change service providers, or stop a specific service for a certain period.

You can obtain your business data through the SAP Integration Suite, managed gateway for spend management and SAP Business Network portal. Alternatively, you can raise a service request with SAP Ariba Support. From the **Data Export** tab of the SAP Integration Suite, managed gateway for spend management and SAP Business Network, you can choose the business data that you want to export. The business data is downloaded to the your local system or network location as a ZIP file. The ZIP file contains the actual data files in CSV format.

The following table displays the business data types that you can export:

Data	Description
Systems	The basic data of your organization configured for the Trading Partner System Information of the user.
Projects	The connection and mapping information of a backend SAP ERP or SAP S/4HANA system configured for your projects created in SAP Integration Suite, managed gateway for spend management and SAP Business Network.
Connections	The connections configured to SAP ERP, SAP S/4HANA, or middleware using SAP Integration Suite, managed gateway for spend management and SAP Business Network.
Mappings	Two latest versions of the mappings (whether deployed or undeployed), deploy status, source to target mapping information, format, and system ID.
Crossrefs	The values maintained for parameters, Unit Of Measurements (UOMs), LookUp table entries, and Realm IDs.
Certificates	Certificates configured for direct and shared connections.
④ Note Authentication certificates are not exported.	
Custom Routing	The custom routings configured between SAP ERP or SAP S/4HANA and SAP Business Network or SAP Ariba solutions using SAP Integration Suite, managed gateway for spend management and SAP Business Network.
Master Characteristics	The document characteristics (line item details) for each document added by the user.

You can export multiple versions of your business data. However, you can perform only one export in an hour.

The exported business data is encrypted and password-protected. The ZIP file can be decrypted using archiver programs such as WinRAR and 7-Zip. You must provide a password at the time of exporting your business data. This password is used to open the ZIP file.

④ Note

Windows Archiver is not a supported archiver program to decrypt the exported ZIP file.

A new database table, CUSTOMER_DATA_DOWNLOADS, has been created to maintain details of the business data export. Every time an export takes place, an entry is added to the CUSTOMER_DATA_DOWNLOADS table with export details such as file name, file size, date and time of export, and file hash. The audit log also contains an entry about the export.

For more information on how to export your business data, see [Exporting Business Data](#).

Prerequisites

You must have Admin, Admin Light, or Support User permissions to be able to initiate a business data export.

Restrictions

- Transaction data, private keys, and passwords are not exported.
- If you have multiple ANIDs, you need to export your business data from each ANID separately.
- You are limited to one export per hour.

Appendix: Integration with SAP S/4HANA Cloud

Integrating SAP S/4HANA Cloud Public Edition with SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network and SAP Ariba Solutions

SAP Ariba supports integration of SAP SAP S/4HANA Cloud Public Edition with SAP Integration Suite, managed gateway for spend management and SAP Business Network and SAP Ariba solutions. The integration with the SAP Ariba solutions has been implemented across different SAP S/4HANA Cloud Public Edition Integration solutions releases.

① Note

SAP S/4HANA Cloud Public Edition integration with SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support:

- Multi-ERP
- SystemID in cXML payload

SAP Ariba supports the following integration scenarios for the SAP S/4HANA Cloud Public Edition integration solutions:

[Guided Buying Capability with SAP Ariba Buying \(2NV\) \[page 389\]](#)

[Automation of Source-to-Pay with SAP Business Network \(42K\) \[page 389\]](#)

[Sourcing with SAP Ariba Sourcing \(4BL\) \[page 391\]](#)

[Contract Management with SAP Ariba Contracts \(4AZ\) \[page 391\]](#)

[Contract for Central Procurement with SAP Ariba Contracts \(4B0\) \[page 392\]](#)

[Guided Buying for Central Procurement with SAP Ariba Buying \(3EN\) \[page 393\]](#)

[Central Procurement with SAP Ariba Sourcing \(4QN\) \[page 393\]](#)

[Service Procurement with SAP Business Network and SAP Fieldglass \(4R2\) \[page 394\]](#)

[Automation of Central Procurement Quotes with SAP Business Network \(5JT\) \[page 395\]](#)

[Subcontracting with SAP Business Network \(5I2\) \[page 396\]](#)

[Support for MRP Exception Change Requests \(J44\) \[page 397\]](#)

[MRP Change Request Integration with SAP Business Network \(65D\) \[page 399\]](#)

[Automation of Order-to-Invoice with SAP Business Network \(4A1\) \[page 399\]](#)

[Central Procurement with SAP Business Network for Procurement \(6BJ\) \[page 400\]](#)

Guided Buying Capability with SAP Ariba Buying (2NV)

Buyers can integrate SAP S/4HANA Cloud Public Edition with SAP Ariba Buying (with guided buying capability enabled) using SAP Integration Suite, managed gateway for spend management and SAP Business Network. The buyers create and send purchase requisitions using guided buying and pass on these requisitions to SAP S/4HANA Cloud Public Edition using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

In SAP S/4HANA Cloud Public Edition, purchase orders are created based on the purchase requisitions received from guided buying. Then, SAP S/4HANA Cloud Public Edition sends the purchase orders to the suppliers to proceed with the procurement. SAP S/4HANA Cloud Public Edition sends all the status updates back to guided buying using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

You can find more information about this integration scenario in the following documents:

Feature Overview	Setup Instructions
Guided Buying Capability with SAP Ariba Buying (2NV)	Setting Up Guided Buying Capability with SAP Ariba Buying (2NV)

Automation of Source-to-Pay with SAP Business Network (42K)

SAP S/4HANA Cloud Public Edition customers using the Automation of Source-to-Pay with SAP Business Network (42K) integration scenario can now use the following features:

- Buyers integrated with SAP Business Network, SAP Business Network Discovery, SAP Business Network for Supply Chain for Buyers, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send a request for quotation from SAP S/4HANA Cloud Public Edition to SAP Business Network. The request for quotation event is created and published on SAP Business Network Discovery. Suppliers can either be invited as part of the request for quotation event or matched through SAP Business Network Discovery. Invited and matched suppliers receive notifications about the request for quotation event from SAP Business Network Discovery. Suppliers can then respond directly to the event on SAP Business Network Discovery.
After the suppliers bid, SAP Business Network Discovery sends the information about all the quotes from suppliers back to SAP S/4HANA Cloud Public Edition. SAP S/4HANA Cloud Public Edition creates the awards and then the buyer creates a purchase order.
- Parked non-PO invoices without accounting details that are sent to SAP S/4HANA Cloud Public Edition through SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Posting of the non-PO invoices without accounting details are not supported. However, as part of Automation of Source-to-pay (42K), parked non-PO invoices for the Material Management (MM) module, without accounting details that are sent to SAP S/4HANA Cloud Public Edition through SAP Integration Suite, managed gateway for spend management and SAP Business Network are supported.
- Discount scenarios are not supported for PO-based invoices.
- Buyers can create new SAP Business Network accounts on behalf of suppliers, based on the Request for Quotation (RFQ) or Central Procurement quotes (cRFQ) sent from SAP S/4HANA Cloud Public Edition to SAP Business Network Discovery through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

- Quick enablement of suppliers based on the RFQ or cRFQ sent from SAP S/4HANA Cloud Public Edition to SAP Business Network Discovery does not support fax as a communication method. It supports only email.
- SAP Business Network Discovery does not support quick enablement for ANID test accounts (ANID-T).
- Buyers on SAP S/4HANA Cloud Public Edition can send the following information in purchase orders sent to SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network:
 - Items having the item category with a blank value and the Product Type Group as Service (2) in purchase orders for Lean Services. The service sheets can contain only service line items. Suppliers on SAP Business Network can create service sheets or invoices against the purchase order containing lean service items.
 - The name and ID of the following entities of the buying organization:
 - Company code
 - Purchasing organization
 - Purchasing Group
 Buyers and suppliers can sort and filter purchase orders by using the company code, purchasing org., or purchasing group. Buyers can find purchase orders related to the different company entities or commodities in the purchasing group.
 - Set quantity and time tolerance in purchase orders.
 - Updation of the delivery date, performance start date, and performance end date in purchase orders and order confirmations based on the time zone of the delivery address maintained by buyers. The date and time fields are based on the buyer's time zone as per the ISO8601 standard.
 - Multiple texts at both the header and the line level.
 - Specify price tolerances, providing some flexibility to suppliers instead of canceling the purchase orders. This allows suppliers to make price changes in purchase orders at the line-item level in SAP Business Network. These changes are included in order confirmations sent to SAP S/4HANA Cloud Public Edition through SAP Integration Suite, managed gateway for spend management and SAP Business Network.
 - Add manufacturer part ID and manufacturer name (in cXML, ManufacturerPartID and ManufacturerName).
 - Apart from adding attachments at the header level, buyers can add attachments at the line-item level in purchase orders sent from SAP S/4HANA Cloud Public Edition to SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network. While the header level attachments will continue to be sent in MIME format, the line-item level attachments will be sent in Message Transmission Optimization Mechanism (MTOM) format.
- Details of batch managed materials are included for finished materials in Advance Ship Notice (Inbound Delivery). When you create a subcontract order in Purchasing, you can determine which batch of the subcontracting component is to be delivered to the subcontractor. This may be useful, for example, if the material for subcontracting requires specific characteristics that you map in your system using batches. The following details of batch managed materials are included in the respective transactions:

Transactions	Details of Batch Managed Materials
For finished materials in Advance Ship Notice (Inbound Delivery) received from the SAP Business Network supplier.	<ul style="list-style-type: none"> • Supplier batch ID • Production / Manufacture date • Expiry date of batch-managed materials

- Buyers on SAP S/4HANA Cloud Public Edition integrated with SAP Business Network and SAP Business Network for Supply Chain through SAP Integration Suite, managed gateway for spend management and SAP

Business Network can include serial numbers in Inbound Delivery for finished materials. The serial numbers are shared by suppliers for items at line level in Advance Ship Notice for finished goods, which in turn is used by buyers while creating Inbound Delivery.

You can find more information about this integration scenario in the following documents:

Feature Overview	Setup Instructions
Automation of Source-to-Pay with SAP Business Network (42K)	Setting Up Automation of Purchase-to-Pay with SAP Business Network (42K)

Sourcing with SAP Ariba Sourcing (4BL)

Buyers can integrate SAP S/4HANA Cloud Public Edition with SAP Ariba Sourcing using SAP Integration Suite, managed gateway for spend management and SAP Business Network. Buyers on SAP Ariba Sourcing can receive the request for quotation (RFQ) from SAP S/4HANA Cloud Public Edition. SAP Ariba Sourcing processes the request for quotation and creates a sourcing request. The sourcing manager approves the request, creates a sourcing event, and invites suppliers to participate based on the information available in the request for quotation.

SAP Ariba Sourcing sends information about the award and matched suppliers to SAP S/4HANA Cloud Public Edition in the supplier request. SAP S/4HANA Cloud Public Edition creates the supplier quotation and then creates a purchase order.

You can find more information about this integration scenario in the following documents:

Feature Overview	Setup Instructions
Sourcing with SAP Ariba Sourcing (4BL)	Setting Up Sourcing with SAP Ariba Sourcing (4BL)

Contract Management with SAP Ariba Contracts (4AZ)

SAP Ariba supports integration of SAP Ariba Contracts and SAP Integration Suite, managed gateway for spend management and SAP Business Network with SAP S/4HANA Cloud Public Edition. Buyers using SAP Ariba Contracts can create and send contracts to SAP S/4HANA Cloud Public Edition.

As a buyer, you can create contracts with document types Quantity Contract (MK) and Value Contracts (WK) on SAP Ariba Contracts. You can then publish the contract and send it to SAP S/4HANA Cloud Public Edition through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

On the Create Contract Workspace (Procurement) page in SAP Ariba Contracts, you can create the header information for a contract. You must specify SAP S/4HANA Cloud Public Edition as the external system.

You can use the following methods to add line items to the contract line items document (CLID):

- Add line items based on the master data of the external system
- Add ad hoc line items

In purchase contracts, you can create a hierarchy of line items, which can contain material and service line items. You can set the item category as consignment for material master items and can specify whether a Purchase Information Record (PIR) is to be created or updated in SAP S/4HANA Cloud Public Edition for the material.

You can also create contracts from the quotes (supplier quotations) sent from SAP Ariba Sourcing to SAP S/4HANA Cloud Public Edition.

You can find more information about this integration scenario in the following documents:

Feature Overview	Setup Instructions
Contract Management with SAP Ariba Contracts (4AZ)	Setting Up Contract Management with SAP Ariba Contracts (4AZ) 

Contract for Central Procurement with SAP Ariba Contracts (4BO)

With the **Contract for Central Procurement with SAP Ariba Contracts (4BO)** scope item, the buyers can use SAP Integration Suite, managed gateway for spend management and SAP Business Network to integrate central contracts from SAP Ariba Contracts with SAP S/4HANA Cloud Public Edition that is configured as the central hub. With this integration, the buyers can create and send contracts with the document category, **Central Contract**, from SAP Ariba Contracts to SAP S/4HANA Cloud Public Edition configured as the central hub.

To facilitate the integration of master data from the central procurement hub and the associated external systems with SAP Ariba Contracts, you can do the following configurations:

- Designate an SAP S/4HANA Cloud Public Edition system as a central procurement hub. The central procurement hub is considered as the parent system. The parent system is linked to more than one external system.
- Assign an SAP S/4HANA Cloud Public Edition system configured as a central procurement hub as the parent to an ERP-system (SAP ERP, SAP S/4HANA Cloud Public Edition, or SAP S/4HANA On-premise) configured as an external system.

On the **Create Contract Workspace (Procurement)** page in SAP Ariba Contracts, you can create the header information for a contract. You must specify the central hub as the external system and choose **Central Contract** as the document type. Additionally, you can choose only the company code and the purchasing group details.

You can use the following methods to add line items to the contract line items document (CLID):

- Add line items based on the master data associated with an external system linked to the central procurement hub. When adding these line items, you must also select the external system associated with it.
- Add ad hoc line items. In the **External System ID** field for each ad hoc line item, specify the name of the external system that contains the master data for the line item. The external system must be linked to an SAP S/4HANA Cloud Public Edition system configured as a central procurement hub. You must also select the master data such as plant, item category, material group, incoterm, and so on, that are associated with the external system you've selected for that line item.

You can integrate advanced pricing conditions with multiple validity periods and scales between contracts created in SAP Ariba Contracts and central contracts created in SAP S/4HANA Cloud Public Edition.

You can find more information about this integration scenario in the following documents:

Feature Overview	Setup Instructions
Contract for Central Procurement with SAP Ariba Contracts (4BO)	Contract for Central Procurement with SAP Ariba Contracts (4BO) 

Guided Buying for Central Procurement with SAP Ariba Buying (3EN)

Buyers can integrate SAP S/4HANA Cloud Public Edition Central Procurement with SAP Ariba Buying (with guided buying capability enabled) using SAP Integration Suite, managed gateway for spend management and SAP Business Network. The buyers create and send purchase requisitions for catalog items, existing materials, planned lean services, and free-text items using guided buying and pass on these requisitions to SAP S/4HANA Cloud Public Edition Central Procurement using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

SAP S/4HANA Cloud Public Edition Central Procurement validates the purchase requisition from guided buying and sends it to the connected backend system, which is SAP S/4HANA On-premise, SAP S/4HANA Cloud Public Edition, or SAP ERP. The connected backend system simulates creating a purchase requisition and sends a response containing the results of the simulation to SAP S/4HANA Cloud Public Edition Central Procurement. On successful simulation, SAP S/4HANA Cloud Public Edition Central Procurement creates a central purchase requisition and sends the document number to guided buying. After approval, SAP S/4HANA Cloud Public Edition Central Procurement sends the central purchase requisition to the connected backend system to create a purchase order to proceed with the procurement. SAP S/4HANA Cloud Public Edition Central Procurement sends all the status updates back to guided buying using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

You can find more information about this integration scenario in the following documents:

Feature Overview	Setup Instructions
Guided Buying for Central Procurement with SAP Ariba Buying (3EN)	Guided Buying for Central Procurement with SAP Ariba Buying (3EN) 

Central Procurement with SAP Ariba Sourcing (4QN)

Buyers can integrate SAP S/4HANA Cloud Public Edition with SAP Ariba Sourcing using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Central Procurement with Ariba Sourcing (4QN) enables you to identify sources of supply for central requests for quotation (central RFQ), using the community of suppliers in SAP Ariba Sourcing. If integration with SAP Ariba Sourcing is enabled for central procurement, you can bundle purchase requisitions from different SAP ERP or SAP S/4HANA Cloud Public Edition backend systems into external sourcing requests and transfer them to SAP Ariba Sourcing through SAP Integration Suite, managed gateway for spend management and SAP Business Network. Based on the supplier quotations that are received and awarded in SAP Ariba Sourcing, follow-on documents are created in the SAP S/4HANA Cloud Public Edition hub system or in the connected backend systems.

In the 4QN integration scenario, when SAP Ariba Sourcing receives a request for quotation (RFQ) from SAP S/4HANA Cloud Public Edition, SAP Ariba Sourcing sends an RFQ confirmation message to SAP S/4HANA Cloud Public Edition to indicate whether the RFQ creation in SAP Ariba Sourcing is successful or not. Similarly, when SAP S/4HANA Cloud Public Edition receives an award or a supplier quotation from SAP Ariba Sourcing, SAP S/4HANA Cloud Public Edition sends a supplier quotation confirmation message to SAP Ariba Sourcing to indicate whether the supplier quotation creation in SAP S/4HANA Cloud Public Edition is successful or not.

The following document types are introduced for Central Procurement with Ariba Sourcing (4QN):

- `CentralRequestForQuotation` (from SAP S/4HANA Cloud Public Edition to SAP Ariba Sourcing)
- `CentralSupplierQuotation` (from SAP Ariba Sourcing to SAP S/4HANA Cloud Public Edition)
- `CentralRFQConfirmation` (from SAP Ariba Sourcing to SAP S/4HANA Cloud Public Edition)
- `CentralQuoatationConfirmation` (from SAP S/4HANA Cloud Public Edition to SAP Ariba Sourcing)

You can find more information about this integration scenario in the following document:

Feature Overview	Setup Instructions
Central Procurement with SAP Ariba Sourcing (4QN)	Central Procurement with Ariba Sourcing (4QN) 

Service Procurement with SAP Business Network and SAP Fieldglass (4R2)

The **Service Procurement with SAP Business Network and SAP Fieldglass (4R2)** integration scenario involves integration between SAP S/4HANA Cloud Public Edition, SAP Fieldglass, and SAP Business Network for services procurement and supports the exchange of documents such as orders, service sheets, and invoices.

Service entry sheets created in SAP Fieldglass against lean-service orders created in SAP S/4HANA Cloud Public Edition can be delivered via SAP Business Network to SAP S/4HANA Cloud Public Edition for approval. SAP Business Network creates invoices against approved service entry sheets and sends them to SAP S/4HANA Cloud Public Edition for approval. Approval of service entry sheets and the associated invoices occur in SAP S/4HANA Cloud Public Edition. All data is routed through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

You can configure the test endpoints for SAP Fieldglass tenants. The supported document types are `ERSInvoiceMapperXML` (Invoice), `StatusUpdateRequest` (Invoice SUR), `SOW` (OrderRequest), `SOWREVISION` (ChangeOrderRequest), and `ServiceEntrySheetStsNotifMsg` (SES SUR). For more information, see [Managing Endpoints](#).

Prerequisites

- Ensure that the Automation of Source-to-Pay with SAP Business Network (42K) scope item is activated.
- Ensure that you've completed all settings for SAP Integration Suite, managed gateway for spend management and SAP Business Network mentioned in the 42K setup guide.

- To set up service procurement with SAP Business Network and SAP Fieldglass, you need to configure the endpoints for your SAP Fieldglass test environment:
SAP Fieldglass supports multiple test environments. You need to select and configure the relevant test environment to be able to test your integration. To configure the endpoints for your SAP Fieldglass test environment, follow the procedure described in [Managing Endpoints](#).

Related Information

[Service Procurement with SAP Business Network and SAP Fieldglass \(4R2\)](#)

[Process overview of Service Procurement with SAP Business Network and SAP Fieldglass \(4R2\)](#)

[Setting Up Service Procurement with SAP Business Network and SAP Fieldglass \(4R2\)](#)

Automation of Central Procurement Quotes with SAP Business Network (5JT)

Central Procurement consolidates multiple requisitions received from multiple connected SAP S/4HANA Cloud systems into a single quotation called Central RFQ (cRFQ). The cRFQs are sent to SAP Business Network Discovery through SAP Integration Suite, managed gateway for spend management and SAP Business Network. In addition, buyers also create RFQs, as part of the Quote Automation flow, in Central Procurement and send them to SAP Business Network Discovery through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

When suppliers submit their responses in SAP Business Network Discovery, the `Quote Message` is sent to SAP Integration Suite, managed gateway for spend management and SAP Business Network. An optional extrinsic in the `Quote Request` and `Quote Message` cXML documents allow SAP Integration Suite, managed gateway for spend management and SAP Business Network to identify cRFQs and route the related supplier responses from SAP Business Network Discovery back to Central Procurement. This new extrinsic is called `quoteBusinessObject`:

Extrinsic	Sample Code
<code>quoteBusinessObject</code>	<pre>↔ Sample Code <QuoteRequest> ... <QuoteRequestHeader> <Extrinsic name="quoteBusinessObject">central</Extrinsic> </QuoteRequestHeader> ... </QuoteRequest></pre>

- If the extrinsic value implies cRFQ as shown above, SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the responses to Central Procurement.
- Otherwise, the responses are handled according to the Quote Automation flow.

ⓘ Note

Similarly, for `Quote Message`, the extrinsic is available under `QuoteMessageHeader`.

- Buyers can create new SAP Business Network accounts on behalf of suppliers, based on the Request for Quotation (RFQ) or Central Procurement quotes (cRFQ) sent from SAP S/4HANA Cloud to SAP Business Network Discovery through SAP Integration Suite, managed gateway for spend management and SAP Business Network.
 - Quick enablement of suppliers based on the RFQ or cRFQ sent from SAP S/4HANA Cloud to SAP Business Network Discovery does not support fax as a communication method. It supports only email.
 - SAP Business Network Discovery does not support quick enablement for ANID test accounts (ANID-T).

You can find more information about this integration scenario in the following documents:

Feature Overview	Setup Instructions
Automation of Central Procurement Quotes with SAP Business Network (5JT)	Setting Up Automation of Central Procurement Quotes with SAP Business Network (5JT) 

Subcontracting with SAP Business Network (5I2)

The SAP S/4HANA Cloud Public Edition to SAP Business Network integration through SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the exchange of documents related to standard procurement and subcontracting processes. This supports the integration of contract manufacturing for the SAP S/4HANA Cloud Public Edition buyers and suppliers using direct materials. Buyers can collaborate with contract manufacturers who are registered as suppliers on SAP Business Network and send subcontracting purchase orders and associated transaction documents to contract manufacturer suppliers in the 5I2 integration scenario.

SAP S/4HANA Cloud Public Edition customers using the Subcontracting with SAP Business Network (5I2) integration scenario can now use the following features:

- When a contract manufacturer supplier sends a ship notice for subcontracted materials with component consumption details through SAP Integration Suite, managed gateway for spend management and SAP Business Network, the corresponding inbound delivery created in SAP S/4HANA Cloud Public Edition now includes the component consumption details also.
- SAP S/4HANA Cloud Public Edition buyers can send subcontracting purchase orders along with component information from SAP S/4HANA Cloud Public Edition to subcontracting vendors on SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Component information can include detailed information about subcontracting components, which are used to manufacture the finished goods. Some of the key details include Subcontracting Component ID, Component Description, and Component Quantity along with the Unit of Measure.
- When the buyer ships components as per the subcontracting purchase order, they can send the component ship notice (outbound delivery) from SAP S/4HANA Cloud Public Edition to subcontracting vendors on SAP Business Network (using the `ShipNoticeRequest` document), through SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Updation of the delivery date, performance start date, and performance end date in purchase orders and order confirmations based on the time zone of the delivery address maintained by SAP S/4HANA Cloud Public Edition buyers. The date and time fields are based on the buyer's time zone as per the ISO8601 standard.

- Buyers on SAP S/4HANA Cloud Public Edition can create proof of delivery against the component shipment (outbound delivery) based on component receipt sent from contract manufacturer suppliers on SAP Business Network
- Details of batch managed materials are included for subcontracting components in Component Ship Notice (Outbound Delivery) and Advance Ship Notice (Inbound Delivery), and for finished materials in Advance Ship Notice (Inbound Delivery). When you create a subcontract order in Purchasing, you can determine which batch of the subcontracting component is to be delivered to the subcontractor. This may be useful, for example, if the material for subcontracting requires specific characteristics that you map in your system using batches. The following details of batch managed materials are included in the respective transactions:

Transactions	Details of Batch Managed Materials
For subcontracting components in Component Ship Notice (Outbound Delivery) sent by SAP S/4HANA Cloud Public Edition buyers.	<ul style="list-style-type: none"> Buyer batch ID Supplier batch ID Production / Manufacture date Expiry date of batch-managed materials
For subcontracting components in Advance Ship Notice (Inbound Delivery) received from the SAP Business Network supplier.	<ul style="list-style-type: none"> Buyer batch ID Supplier batch ID
For finished materials in Advance Ship Notice (Inbound Delivery) received from the SAP Business Network supplier.	<ul style="list-style-type: none"> Supplier batch ID Production / Manufacture date Expiry date of batch-managed materials

- Buyers on SAP S/4HANA Cloud Public Edition integrated with SAP Business Network and SAP Business Network for Supply Chain through SAP Integration Suite, managed gateway for spend management and SAP Business Network can include serial numbers in Inbound Delivery for finished materials. The serial numbers are shared by suppliers for items at line level in Advance Ship Notice for finished goods, which in turn is used by buyers while creating Inbound Delivery.
- Buyers can process the packaging information with handling units in ship notices sent by suppliers from SAP Business Network. When a buyer creates or updates packaging instructions, those instructions are transferred to SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network. The transferred instructions are then available to a supplier to pack the material using handling units via advanced packaging wizard during ship notice creation for that buyer.

You can find more information about this integration scenario in the following documents:

Feature Overview	Setup Instructions
Subcontracting with SAP Business Network (5I2)	Setting Up Subcontracting with SAP Business Network (5I2)

Support for MRP Exception Change Requests (J44)

Integration support for Material Requirements Planning (MRP) exception change requests in purchase orders sent from SAP S/4HANA Cloud Public Edition to SAP Business Network as part of the MRP cycle.

Material Requirements Planning enables your planning department to automate procurement planning. The main function of MRP is to guarantee material availability and to avoid delays in order fulfillment. The planning run

checks availability of each material and, in case of shortages, creates purchase requisitions, or delivery schedules if a scheduling agreement exists. The remaining shortages are displayed in the MRP application where the material planner can analyze the situation.

ⓘ Note

Integration with SAP Business Network is **optional** in the J44 integration scenario.

As part of integration support for MRP, purchase order change requests sent from SAP S/4HANA Cloud Public Edition, buyers have the ability to inform their suppliers on SAP Business Network about change requests occurring during MRP. These change requests are generated during MRP. Such change requests may affect the purchase orders being worked on by suppliers. Buyers can arrive at an agreement with their suppliers on the changes before sending a change purchase order.

This includes three process steps:

- MRP change request
- MRP change request response
- MRP change request confirmation

The purchase order change requests include planned changes to requested quantity and delivery date at schedule line level.

Suppliers in turn can send their responses to change requests from SAP Business Network to their buyers using SAP S/4HANA Cloud Public Edition with an acceptance, rejection, or alternative changes proposed.

SAP S/4HANA Cloud Public Edition sends an MRP change request confirmation after an MRP change request response is processed.

Prerequisites

Suppliers using SAP Business Network must be enabled for SAP Business Network for Supply Chain.

Restrictions

- There is no support for change requests to scheduling agreements or scheduling agreement releases.
- Suppliers can make only one response or proposal per change request.
- Buyers can make only one response or proposal to a supplier's response per change request.

Related Information

[Order change requests tile for the supplier Workbench](#)

MRP Change Request Integration with SAP Business Network (65D)

Integration support for Material Requirements Planning (MRP) exception change requests in purchase orders sent from SAP S/4HANA Cloud Public Edition to SAP Business Network as part of the MRP cycle.

Material Requirements Planning enables your planning department to automate procurement planning. The main function of MRP is to guarantee material availability and to avoid delays in order fulfillment. The planning run checks availability of each material and, in case of shortages, creates purchase requisitions, or delivery schedules if a scheduling agreement exists. The remaining shortages are displayed in the MRP application where the material planner can analyze the situation.

As part of integration support for MRP exceptions, buyers can send MRP change requests from SAP S/4HANA Cloud Public Edition to their suppliers on SAP Business Network to collaborate on the required changes to purchase orders that suppliers are working on.

Purchase order change requests sent from SAP S/4HANA Cloud Public Edition, buyers have the ability to inform their suppliers on SAP Business Network about change requests occurring during MRP. These change requests are generated during MRP. Such change requests may affect the purchase orders being worked on by suppliers. Buyers can arrive at an agreement with their suppliers on the changes before sending a change purchase order.

This includes three process steps:

- MRP change request
- MRP change request response
- MRP change request confirmation

The purchase order change requests include planned changes to requested quantity and delivery date at schedule line level.

Suppliers in turn can send their responses to change requests from SAP Business Network to their buyers using SAP S/4HANA Cloud Public Edition with an acceptance, rejection, or alternative changes proposed.

SAP S/4HANA Cloud Public Edition sends an MRP change request confirmation after an MRP change request response is processed.

You can find more information about this integration scenario in the following document:

[Setting Up MRP Change Request Integration with SAP Business Network \(65D\)](#)

Automation of Order-to-Invoice with SAP Business Network (4A1)

The *Automation of Order-to-Invoice with SAP Business Network (4A1)* scope item enables the supplier integration to SAP Business Network to simplify and automate exchanging sales documents and their follow-on messages between suppliers using SAP S/4HANA Cloud Public Edition and their buyers using SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network. The following documents and functions are supported in the sales process:

- Create, change, or cancel sales order (inbound message).

- Send order confirmation (outbound message).
- Send advanced shipping notification (outbound message).
- Send customer invoice (outbound message).

SAP S/4HANA Cloud Public Edition customers using the Automation of Order-to-Invoice with SAP Business Network (4A1) integration scenario can now use the following feature:

- Suppliers can add attachments at the header level in outbound deliveries sent from SAP S/4HANA Cloud Public Edition to buyers on SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network. Attachments in Multipurpose Internet Mail Extensions (MIME) or Message Transmission Optimization Mechanism (MTOM) format can be added at the header level in outbound deliveries. However, to enable support for MTOM format, specific communication arrangements need to be configured. For more information on maximum attachment sizes, please see [Maximum Document and Attachment Size](#).

You can find more information about this integration scenario in the following documents:

Feature Overview	Setup Instructions
Automation of Order-to-Invoice with SAP Business Network (4A1)	Setting Up Automation of Order-to-Invoice with SAP Business Network (4A1)

Central Procurement with SAP Business Network for Procurement (6BJ)

Integrating SAP S/4HANA Cloud Public Edition with SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network, supports the exchange of documents related to standard procurement processes, such as purchase orders and order confirmations.

Create central purchase orders in the central procurement hub system by pooling purchase orders from connected systems, such as SAP ERP, SAP S/4HANA Cloud Public Edition, or ECC. The purchase orders are sent to SAP Business Network and the required suppliers are notified. Suppliers submit their order confirmation through the SAP Business Network. The supplier's order confirmation is sent from the SAP Business Network to either the hub or connected system. As soon as the supplier starts the release and approval process for a purchase order, the status is updated in the connected system.

For more information about this integration scenario, please see [Central Procurement with SAP Business Network for Procurement \(6BJ\)](#).

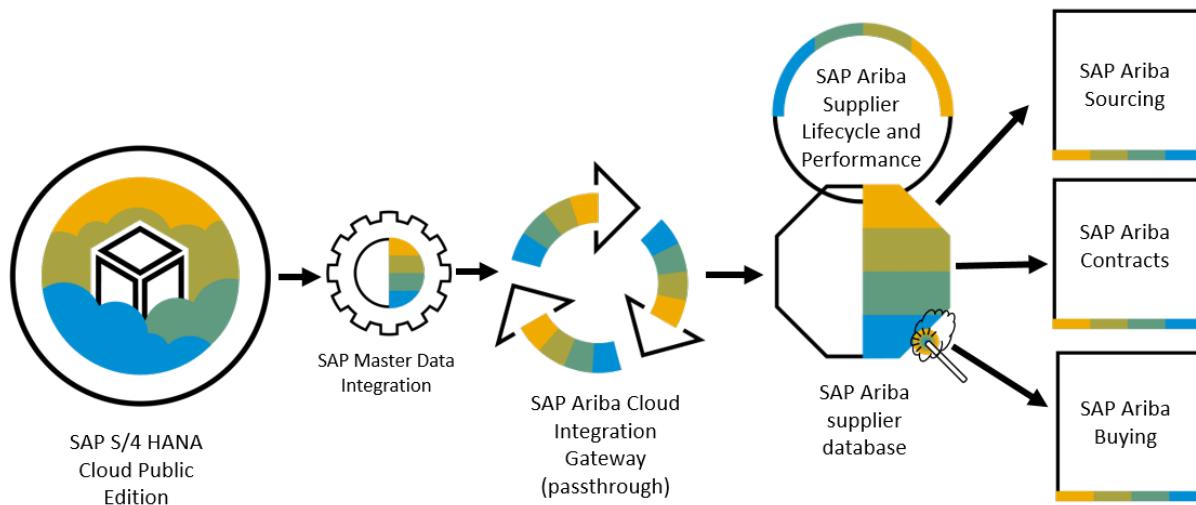
Integrating Supplier Data from SAP S/4HANA Cloud Public Edition with SAP Ariba Solutions Using SAP Master Data Integration

[About Supplier Data Integration with SAP S/4HANA Cloud Public Edition Using SAP Master Data Integration \[page 401\]](#)

About Supplier Data Integration with SAP S/4HANA Cloud Public Edition Using SAP Master Data Integration

You can use SAP Master Data Integration (MDI) to synchronize supplier data between SAP S/4HANA Cloud Public Edition and SAP Ariba solutions.

SAP MDI synchronizes supplier data with SAP Ariba applications through SAP Integration Suite, managed gateway for spend management and SAP Business Network. The following diagram illustrates this process:



Supplier data integration using SAP MDI supports the following Source to Pay business processes for the SAP S/4HANA Cloud Public Edition integration solutions:

- [Guided Buying Capability with SAP Ariba Buying \(2NV\)](#)
- [Sourcing with SAP Ariba Sourcing \(4BL\)](#)
- [Contract Management with SAP Ariba Contracts \(4AZ\)](#)

SAP MDI integration to SAP Ariba Supplier Lifecycle and Performance and SAP Ariba Supplier Information and Performance Management (new architecture) is also supported.

Supplier data integration using SAP MDI is supported in the following customer landscapes:

Area	Prerequisites
ERP system	SAP S/4HANA Cloud Public Edition using SAP Master Data Integration, single instance only.

Area	Prerequisites	
Configuration	<ul style="list-style-type: none"> SAP MDI must be configured for business partner integration as described in the SAP Master Data Integration - Business Partners documentation, and business partner integration between SAP S/4HANA Cloud Public Edition and SAP MDI must be configured as described in the PDF guide in SAP Note 3087667. For bidirectional integration, SAP S/4HANA Cloud Public Edition must use key mapping between multiple vendor IDs and must map SM Vendor ID to ERP vendor ID. The integration message confirmations that SAP MDI sends back to SAP Ariba applications include the supplier's SM vendor ID rather than the ERP vendor ID. 	
SAP Integration Suite, managed gateway for spend management and SAP Business Network	SAP Integration Suite, managed gateway for spend management and SAP Business Network must be configured for supplier data integration with SAP MDI [page 407].	
SAP Ariba applications	Deployment	New (green field) deployment with no supplier data (including partitioned supplier data) loaded. Integration with existing SAP Ariba sites that have supplier data loaded isn't currently supported.

Area	Prerequisites
Supplier data model	<p>Your SAP Ariba solution must manage supplier data in SM Administration.</p>
	<p>Unidirectional integration of supplier data from SAP S/4HANA Cloud Public Edition to SAP Ariba applications doesn't require a licence for SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture).</p>
Enablement	<p>Bidirectional integration, including the ability to create or update suppliers in your SAP Ariba site and access to supplier request and registration projects, does require a licence for either SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture).</p>
→ Tip	<p>If your SAP Ariba site currently doesn't include either SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture), but you plan to add one of these solutions later, SAP Ariba recommends configuring bi-directional integration with your initial setup.</p>
Enablement	<p>Contact SAP Ariba Support to enable this feature (SM-30016) in your SAP Ariba application site, then complete self-service enablement steps [page 409]. Self-service enablement and configuration options aren't available until SAP Ariba Support has enabled the feature.</p>

Area	Prerequisites
Required features	<ul style="list-style-type: none"> For unidirectional integration, SAP Ariba Support must also enable the feature SM-Force-SMVendorPullTask when enabling this feature. The SM-Force-SMVendorPullTask feature is required in sites that don't include SAP Ariba Supplier Lifecycle and Performance or SAP Ariba Supplier Information and Performance Management (new architecture). If you use guided buying, support for partitioned suppliers (SM-30017) must be enabled and configured in your site [page 413]. As part of this enablement, SAP Ariba Support must enable the site configuration parameter <code>Application.Common.SM.ManageSuppliers</code>. Self-service enablement and configuration options aren't available until SAP Ariba Support has enabled the feature.

⚠ Caution

Enabling this feature when you don't meet these prerequisites can cause serious inconsistencies or disruptions with supplier data, which can be irreversible.

SAP Ariba solutions that use unidirectional integration manage supplier data in the following ways:

- Through replication from SAP MDI, which is the best practice for creating suppliers in your SAP Ariba solution.
- By choosing **Manage > SM Admin** or **Manage > SM Administration** on the dashboard, where the following workspaces are relevant to supported integration scenarios:

Workspace	Use
Data import or export	<ul style="list-style-type: none"> Export existing supplier data. If your site uses guided buying, import supplier qualifications and preferred statuses here. For details, refer to Suppliers in Guided Buying. If your site includes SAP Ariba Sourcing, import supplier contact data to create and update the supplier users invited as participants in sourcing events. For details, refer to Supplier Contact Data File Format. After you've initially loaded supplier contact data, users with the proper permissions can also manually add, edit, and remove supplier contacts for individual suppliers in their profiles. Refer to Adding or Editing a Supplier Contact and Deleting a Supplier Contact for details.
ERP integration	Configure settings for integration using SAP Integration Suite, managed gateway for spend management and SAP Business Network.
Integration status	View, manage, and download integration messages.
Configuration Parameters	Manage settings for integration-related parameters.

Integration and exception monitoring using SAP Cloud ALM is available for this integration. For more information, refer to [Integration and Exception Monitoring for Supplier Data with SAP Cloud ALM](#).

Supplier data integration with SAP S/4HANA Cloud Public Edition using MDI has the following other restrictions:

- Business partners of type supplier and organization are supported. Business partners without suppliers and business partners of type contact person aren't supported.
- If you use guided buying, replication of purchasing organization data is supported and is available for use in guided buying requisitioning. Plant and vendor subranges are replicated to the SAP Ariba supplier database and shown in the **ERP data** detail area of the supplier profile, but aren't yet supported in partitioned suppliers used for requisitioning.

Related Information

[About Partitioned Supplier Data \[page 411\]](#)

[Enabling Supplier Data Integration Using SAP Master Data Integration in Your SAP Ariba Application \[page 409\]](#)

Configuring SOAP Outbound Destinations to the SAP Integration Suite, managed gateway for spend management and SAP Business Network in SAP Master Data Integration

You configure outbound destinations to SAP Integration Suite, managed gateway for spend management and SAP Business Network in SAP Master Data Integration, to which the SOAP messages will be sent.

You create a new destination for your subaccount, and specify appropriate values for the destination configuration parameters. You must have created an SAP Master Data Integration instance for SAP Integration Suite, managed gateway for spend management and SAP Business Network in your SAP BTP subaccount. You will need the BusinessSystemId value you specified for this instance for configuring the destinations.

For more information, see [Destination Configuration for SAP Master Data Orchestration](#).

For SAP Integration Suite, managed gateway for spend management and SAP Business Network, specify the following values in the respective fields:

Destination Configuration page field	Value
Name	Enter <Business_System_Name>_BPOUTBOUND, where "<Business_System_Name>" is the value you specified for BusinessSystemId.
Type	HTTP
URL	Enter the URL of your SAP Integration Suite, managed gateway for spend management and SAP Business Network instance.
Authentication	Basic Authentication
User name	Enter the P user ID of your SAP Integration Suite, managed gateway for spend management and SAP Business Network instance.
Password	Enter the password of your SAP Integration Suite, managed gateway for spend management and SAP Business Network instance.

In addition to setting the above values, you must add the following property as free text in the **Additional Properties** section: **MDOConsumer: true**.

Configuring SAP Integration Suite, managed gateway for spend management and SAP Business Network for Supplier Data Integration Using SAP Master Data Integration

To enable supplier data replication, set up basic connection information to connect SAP Integration Suite, managed gateway for spend management and SAP Business Network to SAP Master Data Integration (MDI).

Prerequisites

You've created an SAP Master Data Integration instance for SAP Integration Suite, managed gateway for spend management and SAP Business Network in your SAP BTP subaccount. You need the `BusinessSystemId` value you specified for that instance for this configuration.

Procedure

1. Log into SAP Integration Suite, managed gateway for spend management and SAP Business Network and choose the user information in the upper right corner of the page.
2. Choose **Basic Data** for the user.

The **Trading Partner System Information** page opens.

3. Specify the following values:

Field	Value
ERP Name	Other
ERP Version	Other
System ID	The <code>BusinessSystemId</code> you specified when creating an MDI instance for SAP Integration Suite, managed gateway for spend management and SAP Business Network in your SAP BTP subaccount.

4. Choose **Save**.

Related Information

[About Supplier Data Integration with SAP S/4HANA Cloud Public Edition Using SAP Master Data Integration \[page 401\]](#)

[Enabling Supplier Data Integration Using SAP Master Data Integration in Your SAP Ariba Application \[page 409\]](#)

Creating a Project in SAP Integration Suite, managed gateway for spend management and SAP Business Network for Supplier Data Integration Using SAP Master Data Integration

To enable supplier data replication, create an integration project in SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Prerequisites

You've created an SAP Master Data Integration instance for SAP Integration Suite, managed gateway for spend management and SAP Business Network in your SAP BTP subaccount. You need the `BusinessSystemId` value you specified for that instance for this configuration. You've also set up basic connection information to connect SAP Integration Suite, managed gateway for spend management and SAP Business Network to SAP Master Data Integration.

Procedure

1. From **Home**, or  **My Configurations** , click **Create a New Integration Project**.
2. Specify a name for the project. For example, `Business Partner Replication`.
3. Choose the product **Ariba Sourcing**.
4. Click **Add new Connection**.
5. On the connection details page, specify the following values:

Field	Value
Transport Type	HTTPS
Environment	Depends on your configuration. In case a single Business Partner service tenant is used for both test and productive usage, choose TEST / PRODUCTION.
Name	Enter a name for the connection. For example, <code>BPREPL</code> .
System ID	The <code>identityzone</code> present in service keys of the MDI instance. For example, <code><uua:identityzone></code> .
Document Type	<code>BusinessPartnerSUITEReplicateRequest</code>
URL	<code><SOAP_endpoint>/BusinessPartnerBulkReplicateRequestIn?tenantId=<subdomain_name></code> In the above URL, replace the following with information fetched from the Service Keys: <ul style="list-style-type: none">• <code>SOAP_endpoint</code>: Value for the SOAP endpoint from the Service key

Field	Value
	<ul style="list-style-type: none"> • <code>subdomain_name</code>: Value for the identityzone from the Service key
Authentication Type	Choose certificate-based or basic authentication, as required, with details available from your Service key. For basic authentication, specify the following: <ul style="list-style-type: none"> • User: Value of <code>clientid</code> from the Service key • Password: Value of <code>clientsecret</code> from the Service key

6. Repeat steps 4 and 5 to create another connection providing the same values, except for the following:

Field	Value
Name	Enter a name for the connection. For example, BPREPLCONF.
Document Type	BusinessPartnerSUITEReplicateConfirmation
URL	<SOAP_endpoint>/ BusinessPartnerBulkReplicateRequestConfI n?tenantId=<subdomain_name>

Enabling Supplier Data Integration Using SAP Master Data Integration in Your SAP Ariba Application

Use these steps to enable supplier data integration using SAP Master Data Integration in your SAP Ariba application. To enable the integration, specify the business system IDs of SAP Master Data Integration and the integrated SAP S/4HANA Cloud Public Edition system and set related configuration parameters.

Prerequisites

To enable MDI integration and set integration-related configuration parameters in **SM Administration** in your SAP Ariba application, you must be a member of the **SM Ops Administrator** group.

To configure integration settings in **SM Administration**, you must be a member of the **SM ERP Administrator** group.

Supplier data integration using SAP Master Data Integration is only supported in specific ERP landscapes and SAP Ariba deployments. For important feature prerequisites and restrictions, refer to [About Supplier Data Integration with SAP S/4HANA Cloud Public Edition Using SAP Master Data Integration \[page 401\]](#).

Procedure

- As part of your SAP Integration Suite, managed gateway for spend management and SAP Business Network configuration, follow [these steps](#) to configure supplier data integration in your SAP Ariba solution.

ⓘ Note

For **ERP Business system ID**, specify the identity zone from the security key in your **SAP Master Data Integration** system, not the ID of the SAP S/4HANA Cloud Public Edition system.

- In **SM Administration** **Configuration Parameters**, perform the following actions:

- Set these parameters:

Parameter	Setting
<code>Application.SM.MDI.MdiEnabled</code>	Set this parameter to True to enable integration using SAP Master Data Integration in your SAP Ariba site.
<code>Application.SM.MDI.MdiPrimaryBpld</code>	Specify the business system ID of the SAP S/4HANA Cloud Public Edition system.
<code>Application.SM.BPKM.KeyMappingEnabled</code>	<p>Set this parameter to True to enable key mapping. Then update the default settings of the following related key mapping parameters as needed based on your SAP S/4HANA key mapping configuration:</p> <ul style="list-style-type: none"><code>Application.SM.BPKM.KeyMappingTypeCodeForBP</code><code>Application.SM.BPKM.KeyMappingObjectSchemaCodeForBP</code><code>Application.SM.BPKM.KeyMappingObjectSchemaCodeForBPUuid</code><code>Application.SM.BPKM.KeyMappingTypeCodeForSup</code><code>Application.SM.BPKM.KeyMappingObjectSchemaCodeForSup</code> <p>For details on these parameters, refer to Reference of Configuration Parameters in Supplier Administration.</p>
<code>Application.SM.BusinessPartner.EnableBup007Sync</code>	Set this parameter to True to automatically: <ul style="list-style-type: none">Send the ANIDs of public suppliers to SAP S/4HANA Cloud Public Edition when they're added to <code>vendor.vendorInfo.anId</code> fields in SAP Ariba.Set the <code>PartyIdentifierTypeCode</code> to <code>BUP007</code>.

Related Information

[About Supplier Data Integration with SAP S/4HANA Cloud Public Edition Using SAP Master Data Integration \[page 401\]](#)

About Partitioned Supplier Data

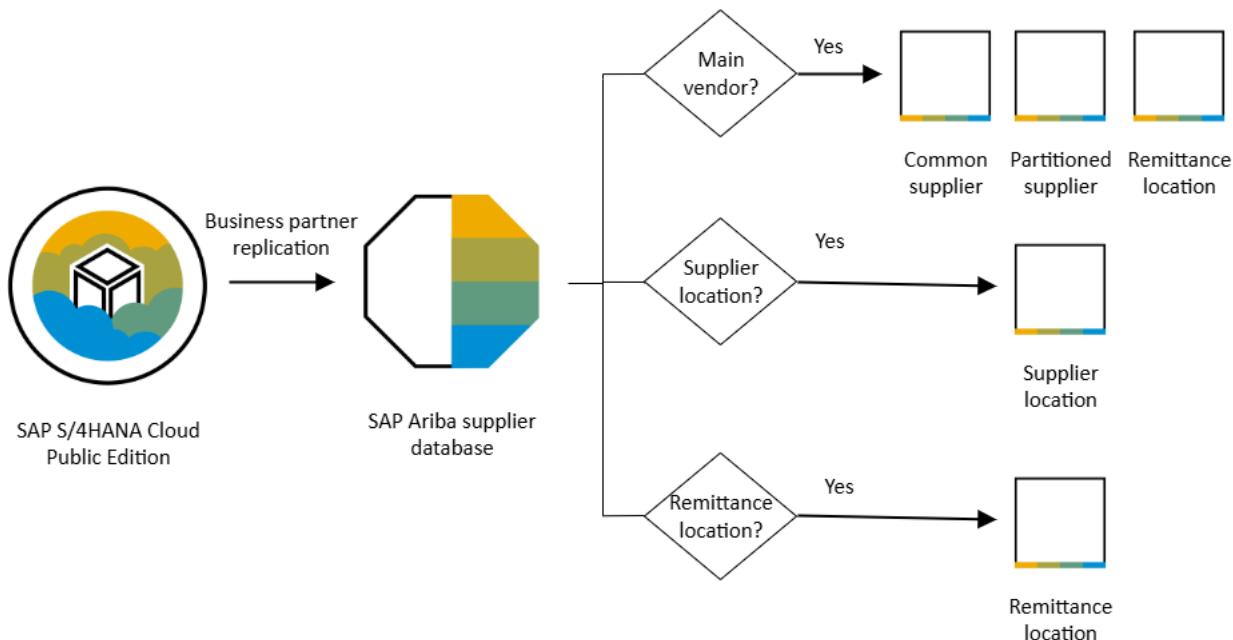
When the partitioned supplier feature (SM-30017) is enabled in your site, you can manage partitioned supplier data as well as common suppliers in **SM Administration** in your SAP Ariba application.

Procurement activities such as requisitioning use partitioned suppliers. Each partitioned supplier can have multiple supplier locations (ordering addresses) and remittance locations, and procurement activities are always associated with a specific supplier location and remittance location rather than the general supplier, because those activities are geographically specific. For example, many suppliers operate in multiple countries/regions and have a "main" address. However, a procurement user in Germany orders from the supplier's German location, and the buyer pays the supplier's German or European remittance location. The overall supplier organization into which the partitioned supplier and all of its supplier and remittance locations roll up is referred to as the common supplier, and you conduct strategic procurement activities such as sourcing events or supplier registrations and qualifications with the common supplier.

When a business partner is replicated from an integrated SAP S/4HANA Cloud Public Edition system to SAP Ariba, [your site's configuration \[page 413\]](#) determines what type of supplier object SAP Ariba creates for it. You can use partner function codes, accounting groups, or both to determine whether new inbound business partners are created as common suppliers, supplier locations, or remittance locations.

If your site uses a multi-ERP configuration, you can also use data imports to define rules about how those supplier objects are synchronized from parent to child site in your configuration. Currently, the partitioned supplier feature only supports multi-ERP configurations with a single child site integrated with a single instance of SAP S/4HANA Cloud Public Edition using SAP Master Data Integration (MDI).

The following diagram illustrates how SAP Ariba creates supplier objects from inbound business partner integration messages:



If the business partner is identified as a main vendor, SAP Ariba creates a common supplier and an associated partitioned supplier and remittance location for it.

If the business partner is identified as a supplier location or remittance location, SAP Ariba creates a supplier location or remittance location for it. Although SAP Ariba can create remittance locations, the current scope of this configuration is restricted to guided buying requisitions.

If the self-service configuraton parameter **Application.SM.UI.BuyingBPSyncUI** is enabled in your site, the **Buying Sync and Supplier Type** columns on the **SM Administration > Integration status** page provide status information about the synchronization of partitioned supplier data from inbound integration messages, including whether the supplier is a main vendor or a supplier or remittance location. For details, refer to [Viewing and Managing Supplier Data Integration Messages](#).

To use the partitioned supplier feature, your SAP Ariba site must be:

- A new deployment, with no supplier data (including partitioned supplier data) loaded.
- Either a single-variant configuration or a multi-ERP configuration with only one child site. If your site uses a multi-ERP configuration, it must fully synchronize supplier data between parent and child sites and both sites must use the SAP variant.
- Suite integrated.
- Integrated with SAP S/4HANA Cloud Public Edition using SAP Master Data Integration (MDI). For the prerequisites and restrictions for MDI integration, refer to [About Supplier Data Integration with SAP S/4HANA Cloud Public Edition Using SAP Master Data Integration \[page 401\]](#). If your SAP Ariba Procurement solutions site has a multi-ERP configuration, or you want to use bidirectional integration, this integration must include key mapping.

Currently, the feature has the following restrictions:

- It feature supports guided buying requisitioning as defined in the Source to Pay Guided Buying Capability with SAP Ariba Buying (2NV) or Guided Buying for Central Procurement with SAP Ariba Buying (3EN) business processes. It doesn't support procurement transactions outside these scopes.
- Currently, the best practice is to create suppliers in SAP Ariba through replication from SAP S/4HANA Cloud Public Edition. If you create or update suppliers in SAP Ariba, synchronizing those updates back to SAP S/4HANA Cloud Public Edition isn't supported.
- Additional supplier types unspecified suppliers and one time vendors aren't supported.
- Alternate payees and permitted payees aren't supported.
- Sites with the PeopleSoft and simple generic variant aren't supported. Only the SAP variant is supported.

Related Information

[Enabling Partitioned Supplier Data in Your SAP Ariba Application \[page 413\]](#)

[Defining Multi-ERP Child Site Variant Types \[page 414\]](#)

[Defining Child Site Mapping Configuration Rules \[page 415\]](#)

Enabling Partitioned Supplier Data in Your SAP Ariba Application

Configuration parameters in **SM Administration** determine how business partners replicated from SAP S/4HANA Cloud Public Edition are converted into common suppliers, supplier locations, and remittance locations in your site.

Prerequisites

The partitioned supplier data feature (SM-30017) must be enabled in your site. This feature must be enabled by SAP Ariba Support. As part of this enablement, SAP Ariba Support must enable the site configuration parameter `Application.Common.SM.ManageSuppliers`. Self-service enablement and configuration options aren't available until SAP Ariba Support has enabled the feature.

⚠ Caution

The partitioned supplier data feature has a number of important prerequisites and restrictions. For details, refer to [About Partitioned Supplier Data \[page 411\]](#).

To import data and configure parameters in **SM Administration**, you must be a member of the **SM Ops Administrator** group.

Procedure

1. In your SAP Ariba application, in  **SM Administration**  **Configuration Parameters**, specify how your site converts business partners replicated from SAP S/4HANA Cloud Public Edition to your SAP Ariba site by setting the following parameters:

Parameter	Setting
<code>Application.SM.P2P.VendorDifferentiationType</code>	This parameter specifies the field in the vendor record of a supplier replicated from the ERP system that SAP Ariba uses to determine whether to create a common supplier, remittance location, or supplier location. Enter <code>PartnerFunctions</code> to use partner function codes. The default setting is <code>All</code> , which means that all vendor records replicated from the ERP system are considered main vendors and SAP Ariba creates common suppliers and remittance locations for all of them.
<code>Application.SM.P2P.RemittancePartnerFunctionCodes</code>	If you set <code>Application.SM.P2P.VendorDifferentiationType</code> to <code>PartnerFunctions</code> , specify the partner function codes that create a remittance location.
<code>Application.SM.P2P.OrderingPartnerFunctionCodes</code>	If you set <code>Application.SM.P2P.VendorDifferentiationType</code> to <code>PartnerFunctions</code> , specify the partner function codes that create an ordering address (supplier location).

Parameter	Setting
Application.SM.P2P.MainVendorPartnerFunctionCodes	If you set Application.SM.P2P.VendorDifferentiationType to PartnerFunctions , specify the partner function codes that create a common supplier and remittance location.

2. **Optional:** Also enable the **Application.SM.UI.BuyingBPSyncUI** parameter so that status information about the synchronization of inbound integration messages to partitioned suppliers is available on the **Integration status** page.
3. **Optional:** Also enable the **Application.SM.BusinessPartner.EnableBup007Sync** parameter to ensure that SAP Business Network IDs (ANIDs) added to suppliers through supplier management activities such as supplier registrations are correctly synchronized to the associated common suppliers, and that those suppliers are searchable by their ANIDs. This setting is recommended.
4. If your SAP Ariba Procurement solutions include a multi-ERP configuration, import the following data to specify how replicated business partners are added to a child site:
 - [Multi-ERP child site variant types \[page 414\]](#)
 - [Child site mapping configuration rules \[page 415\]](#)

Related Information

[About Partitioned Supplier Data \[page 411\]](#)

[Viewing and Managing Supplier Data Integration Messages](#)

[Reference of Configuration Parameters in Supplier Administration](#)

Defining Multi-ERP Child Site Variant Types

Multi-ERP child site variant types define the child sites in your multi-ERP configuration so that you can specify how suppliers are created in child sites.

You use the **Child Site Variant Types** data import task in   to define the child sites in your multi-ERP configuration and specify their variant types. This task is only available in sites with the support for partitioned supplier data feature (SM-30017) enabled. It reads from a CSV file that contains the following fields:

Field	Description	Required?
<code>childRealmSystemId</code>	The name of the child site in your SAP Ariba multi-ERP configuration. If you're not sure of the name of your child site, contact SAP Ariba Support.	Yes

Field	Description	Required?
variantType	The variant type of the child site, which must be SAP for the SAP variant.	Yes
businessSystemId	The business system ID of the ERP system with which the child site is integrated.	Yes

The following example shows lines of a child site variant definition file:

```
childRealmSystemId,variantType,businessSystemId
Child1,SAP,ERP1
```

If you don't define this data in your site, SAP Ariba assumes that you don't have a multi-ERP configuration and that your site uses the SAP variant.

ⓘ Note

Currently, multi-ERP configurations with only one child site are supported. Partitioned supplier data in multi-ERP configurations with more than one child site isn't supported at this time.

Related Information

[About Partitioned Supplier Data \[page 411\]](#)

[Enabling Partitioned Supplier Data in Your SAP Ariba Application \[page 413\]](#)

[Defining Child Site Mapping Configuration Rules \[page 415\]](#)

Defining Child Site Mapping Configuration Rules

Child site mapping configuration rules determine how partitioned suppliers, supplier locations, and remittance locations are created in child sites in a multi-ERP configuration.

SAP Ariba matches a supplier's account group (`maintenanceProfileCode`), purchasing organization ID, or company code to a specific child site based on mapping rules and creates the specified supplier object (partitioned supplier, supplier location, or remittance location) in the matching child site.

You can create multiple rules for the same child site. To create the specified supplier object in the child site, all applicable rules must match.

You use the **Child Site Mapping Configuration Rules** data import task in **SM Administration** **Data import and export** to define child site mapping configuration rules. This task is only available in sites with the support for partitioned supplier data feature (SM-30017) enabled. It reads from a CSV file that contains the following fields:

Field	Description	Required?
elementType	The supplier object to create in child sites. Currently, the only supported value is: <ul style="list-style-type: none">• PS to create a partitioned supplier	Yes
elementPath	The class of the field used to match new suppliers to child sites. For example, vendorInfoExt.	Yes
elementMatchKey	The name of the field used to match new suppliers to child sites. For example, maintenanceProfileCode.	Yes
elementMatchValue	The value in the field used to match new suppliers to child sites. For example, KRED.	Yes
elementResultValue	The name of the child site in which to create the specified supplier object for matching values, as defined in the child site variant definitions [page 414] .	Yes
vendorIdPath	The ERP vendor ID to associate with the supplier object in the child site. If you leave this field blank, SAP Ariba uses key mapping to set the ID.	No

```
elementType,elementPath,elementMatchKey,elementMatchKeyValue,elementResultValue,vendorIdPath
PS,vendorInfoExt,maintenanceProfileCode,KRED,Child1,
```

Note

Currently, multi-ERP configurations with only one child site are supported. Partitioned supplier data in multi-ERP configurations with more than one child site isn't supported at this time.

Related Information

[About Partitioned Supplier Data \[page 411\]](#)

[Enabling Partitioned Supplier Data in Your SAP Ariba Application \[page 413\]](#)

[Defining Multi-ERP Child Site Variant Types \[page 414\]](#)

Appendix: Integration with SAP S/4HANA

Integrating SAP S/4HANA with SAP Integration Suite, managed gateway for spend management and SAP Business Network and SAP Ariba solutions

SAP Ariba supports integration of SAP SAP S/4HANA with SAP Integration Suite, managed gateway for spend management and SAP Business Network and SAP Ariba solutions.

ⓘ Note

SAP S/4HANA integration with SAP Integration Suite, managed gateway for spend management and SAP Business Network does not support:

- Multi-ERP
- SystemID in cXML payload

The integration with the SAP Ariba solutions has been implemented across different SAP S/4HANA Integration solutions releases. SAP Ariba supports the following integration scenarios for the SAP S/4HANA Integration solutions:

[Integration Support for Mediated Connectivity Using SAP Integration Suite and Native APIs to Connect SAP Business Network or SAP Ariba Solutions with SAP S/4HANA \[page 418\]](#)

[Guided Buying Capability with SAP Ariba Buying \(2NV\) \[page 419\]](#)

[Guided Buying for Central Procurement with SAP Ariba Buying \(3EN\) for SAP S/4HANA \[page 419\]](#)

[Automation of Source-to-Pay with SAP Business Network \(42K\) \[page 420\]](#)

[Contract Management with SAP Ariba Contracts \(4AZ\) \[page 422\]](#)

[Central Procurement with SAP Ariba Sourcing \(4QN\) \[page 422\]](#)

[Sourcing with SAP Ariba Sourcing \(4BL\) \[page 423\]](#)

[Service Procurement with SAP Business Network and SAP Fieldglass \(4R2\) \[page 423\]](#)

[Contract for Central Procurement with SAP Ariba Contracts \(4BO\) \[page 424\]](#)

[Automation of Central Procurement Quotes with SAP Business Network \(5JT\) \[page 425\]](#)

[Subcontracting with SAP Business Network \(5I2\) \[page 426\]](#)

[Support for MRP Exception Change Requests \(J44\) \[page 427\]](#)

[Central Procurement with SAP Business Network for Procurement \(6BJ\) \[page 428\]](#)

Integration Support for Mediated Connectivity Using SAP Integration Suite and Native APIs to Connect SAP Business Network or SAP Ariba Solutions with SAP S/4HANA

With this feature, buyers can use the mediated connectivity integration method involving SAP Integration Suite and native APIs to connect SAP Business Network or SAP Ariba solutions with SAP S/4HANA through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Buyers using SAP Integration Suite (earlier known as SAP Cloud Platform Integration tenant) in their environment can configure the outbound and inbound transactions through SAP Integration Suite. Outbound transactions first enter SAP Integration Suite and move to SAP Integration Suite, managed gateway for spend management and SAP Business Network. Inbound transactions from SAP Integration Suite, managed gateway for spend management and SAP Business Network reach SAP S/4HANA through SAP Integration Suite and SAP Cloud Connector.

This feature is supported on the following integration scenarios:

- Guided Buying Capability with SAP Ariba Buying (2NV)
- Guided Buying for Central Procurement with SAP Ariba Buying (3EN)
- Automation of Order-to-Invoice with SAP Business Network (4A1)
- Contract Management with SAP Ariba Contracts (4AZ)
- Contract for Central Procurement with SAP Ariba Contracts (4BO)
- Sourcing with SAP Ariba Sourcing (4BL)
- Central Procurement with SAP Ariba Sourcing (4QN)
- Automation of Source-to-Pay with SAP Business Network (42K)
- Automation of Central Procurement Quotes with SAP Business Network (5JT)
- Service Procurement with SAP Business Network and SAP Fieldglass (4R2)

For more information about the configurations required in SAP Integration Suite, managed gateway for spend management and SAP Business Network for enabling this feature, see SAP Note: [3065371](#).

For more information about the configurations required in SAP S/4HANA, see the latest Setup guide for the respective scope item.

Prerequisites

- This feature requires the guided buying capability for SAP Ariba Buying and SAP Ariba Buying and Invoicing.
- For more information about the prerequisites for SAP Integration Suite, managed gateway for spend management and SAP Business Network and a private tenant, see SAP Note: [3065371](#).

Guided Buying Capability with SAP Ariba Buying (2NV)

Buyers can integrate SAP S/4HANA with SAP Ariba Buying (with guided buying capability enabled) using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Buyers create and send purchase requisitions using guided buying and send these requisitions to SAP S/4HANA using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

In SAP S/4HANA, purchase orders are created based on the purchase requisitions received from guided buying. Then, SAP S/4HANA sends the purchase orders to the suppliers to proceed with the procurement. SAP S/4HANA sends all the status updates back to guided buying using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

You can find more information about this integration scenario in the following documents:

Release version	Feature overview	Setup instructions
2020	Guided Buying Capability with SAP Ariba Buying (2NV)	Setting Up Guided Buying Capability with SAP Ariba Buying (2NV) 

Guided Buying for Central Procurement with SAP Ariba Buying (3EN) for SAP S/4HANA

Buyers can integrate SAP S/4HANA Central Procurement with SAP Ariba Buying or SAP Ariba Buying and Invoicing, with the guided buying capability enabled, using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

SAP S/4HANA Central Procurement acts as the Procurement Hub connecting guided buying to multiple back-end systems. Buyers create purchase requisitions using guided buying and send these requisitions to the Procurement Hub using SAP Integration Suite, managed gateway for spend management and SAP Business Network. In the Procurement Hub, central requisitions corresponding to the purchase requisitions received from guided buying are created. The central requisitions are then replicated in the connected backend systems, where purchase orders are created from the purchase requisitions and sent to suppliers.

SAP S/4HANA Central Procurement validates the purchase requisition from guided buying and sends it to the connected backend system, which can be SAP S/4HANA, SAP S/4HANA CE, or SAP ERP. The connected backend system simulates creating a purchase requisition and sends a response containing the results of the simulation to SAP S/4HANA Central Procurement. On successful simulation, SAP S/4HANA Central Procurement creates a central purchase requisition and sends the document number to guided buying. After approval, SAP S/4HANA Central Procurement sends the central purchase requisition to the connected backend system to create a purchase order to proceed with the procurement. SAP S/4HANA Central Procurement sends all the status updates back to guided buying using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

You can find more information about this integration scenario in the following documents:

Release version	Feature overview	Setup instructions
2020	Guided Buying for Central Procurement with SAP Ariba Buying	Setting Up Guided Buying for Central Procurement with SAP Ariba Buying (3EN) 

Automation of Source-to-Pay with SAP Business Network (42K)

The scope item Automation of Source-to-Pay with SAP Business Network (42K) automates the source-to-pay process and connects suppliers that use SAP S/4HANA with buyers that use SAP Business Network. You as a supplier can exchange data with your buyer by using either SAP Integration Suite, managed gateway for spend management and SAP Business Network AddOn or the APIs for certain business processes.

Starting from SAP S/4HANA 2020 release, SAP S/4HANA buyers can implement the Automation of Source-to-Pay with SAP Business Network (42K) scope item to connect to suppliers on SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network using SAP S/4HANA APIs.

As part of quote automation, users integrated with SAP Business Network, SAP Business Network Discovery, and SAP Integration Suite, managed gateway for spend management and SAP Business Network can send a request for quotation (QuoteRequest) from their SAP S/4HANA system to SAP Business Network or receive a response (QuoteMessage) from SAP Business Network, using native APIs.

Commerce automation enables the exchange of purchase orders, order confirmations, shipping notifications, goods receipts, invoices, and payments through SAP Integration Suite, managed gateway for spend management and SAP Business Network using SAP S/4HANA APIs.

This integration supports the coexistence mode. In the coexistence mode, buyers can integrate using SAP S/4HANA APIs or SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP S/4HANA. Buyers can:

- Implement both the sub-processes (commerce automation and quote automation) at the scope item level using the APIs or the add-on.
- Integrate one of the sub-processes using the APIs and the other one using the add-on. For example, buyers can integrate the commerce automation sub-process using APIs and the quote automation sub-process using the add-on or vice-versa.
- Details of batch managed materials are included for finished materials in Advance Ship Notice (Inbound Delivery). When you create a subcontract order in Purchasing, you can determine which batch of the subcontracting component is to be delivered to the subcontractor. This may be useful, for example, if the material for subcontracting requires specific characteristics that you map in your system using batches. The following details of batch managed materials are included in the respective transactions:

Transactions	Details of Batch Managed Materials
For finished materials in Advance Ship Notice (Inbound Delivery) received from the SAP Business Network supplier.	<ul style="list-style-type: none"> • Supplier batch ID • Production / Manufacture date • Expiry date of batch-managed materials

- Buyers can add manufacturer part ID and manufacturer name (in cXML, `ManufacturerPartID` and `ManufacturerName`) in purchase orders sent from SAP S/4HANA to SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- Apart from adding attachments at the header level, buyers can add attachments at the line-item level in purchase orders sent from SAP S/4HANA to SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network. While the header level attachments will continue to be sent in MIME format, the line-item level attachments will be sent in Message Transmission Optimization Mechanism (MTOM) format.
- Buyers can create ERP-initiated ERS (Evaluated Receipt Settlement) invoices on SAP S/4HANA and send it to SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network. This enables buyers to settle goods receipts without receiving invoices from suppliers. This helps to reduce invoice variances and close purchasing transactions quickly. It enables the automatic creation of invoices after goods receipt transactions are fully approved. This reduces invoice variances and makes the invoicing process more efficient by ensuring that invoices are based on goods received.

When a buyer creates an ERS invoice on SAP S/4HANA for the supplier that is not registered on SAP Business Network, quick enablement allows the buyer to create new SAP Business Network accounts on behalf of that supplier. They can create these accounts by specifying the supplier's company information with an email address (mandatory) in the [Correspondent](#) element. SAP Business Network uses this information to create the supplier's account. It supports the quick enablement of suppliers on SAP Business Network by providing the required supplier information and email address in the ERS invoice.

Note

If the ERS invoice does not include the routing information, that is, if the email address is not maintained in SAP S/4HANA for a supplier that is not yet registered, SAP Business Network considers that document as incomplete and rejects it. In such cases, buyers need to update the email address of the vendor and reprocess the ERS invoice.

However, the following restrictions are applicable for ERP-initiated ERS invoices:

- Comments and attachments are not supported for ERP-initiated ERS invoices.
- Credit memos are not supported for ERP-initiated ERS invoices. Buyers need to generate credit memos manually and communicate the same to suppliers through email, fax, or another communication medium.
- This feature is not supported by the Invoice Status Update (ISU) transaction.
- Reverse ERS invoice is not supported.
- Quick enablement of suppliers based on ERS invoices does not support fax as a communication method. It supports only email.
- Scheduled payments (payment proposal), PayMeNow (dynamic discounting), Unplanned Delivery Costs, and Cash Discounts are not supported for ERS invoices.

You can find more information about this integration scenario in the following documents:

Feature overview	Setup Instructions
Automation of Source-to-Pay with SAP Business Network (42K)	Setting Up Automation of Purchase-to-Pay with SAP Business Network (42K)

Contract Management with SAP Ariba Contracts (4AZ)

Buyers can integrate SAP S/4HANA and the contract workspace in SAP Ariba Contracts using the Contract Management with SAP Ariba Contracts (4AZ) scope item.

With the **Contract Management with SAP Ariba Contracts (4AZ)** scope item, the buyers can create and send contracts with the document type, **Purchase Contracts**, from SAP Ariba Contracts to SAP S/4HANA.

To integrate purchase contracts between SAP S/4HANA and the contract workspace in SAP Ariba Contracts using SAP S/4HANA APIs, you must maintain the following in SAP Integration Suite, managed gateway for spend management and SAP Business Network:

Field	Value
Transport Type drop-down list (on the Connection page)	CloudConnector
Business Process drop-down list (on the Mappings page)	Contracts The Contracts business process includes the following document types: <ul style="list-style-type: none">• PurchaseContractRequest• PurchaseContractStatusUpdateRequestImportRequest

You can find more information about this integration scenario in the following documents:

Release version	Feature overview	Setup instructions
2020 FPS01	Contract Management with SAP Ariba Contracts (4AZ)	SAP Note:3012626 

Central Procurement with SAP Ariba Sourcing (4QN)

Buyers can integrate SAP S/4HANA with SAP Ariba Sourcing using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Central Procurement with Ariba Sourcing (4QN) enables you to identify sources of supply for central requests for quotation (central RFQ), using the community of suppliers in SAP Ariba Sourcing. If integration with SAP Ariba Sourcing is enabled for central procurement, you can bundle purchase requisitions from different SAP ERP or SAP S/4HANA backend systems into external sourcing requests and transfer them to SAP Ariba Sourcing through SAP Integration Suite, managed gateway for spend management and SAP Business Network. Based on the supplier quotations that are received and awarded in SAP Ariba Sourcing, follow-on documents are created in the SAP S/4HANA hub system or in the connected backend systems.

The following document types are introduced for Central Procurement with Ariba Sourcing (4QN):

- **CentralRequestForQuotation** (from SAP S/4HANA to SAP Ariba Sourcing)
- **CentralSupplierQuotation** (from SAP Ariba Sourcing to SAP S/4HANA)

For the setup instructions for this integration scenario:

Feature overview	Setup instructions
Central Procurement with Ariba Sourcing (4QN)	SAP Note 2977583

Sourcing with SAP Ariba Sourcing (4BL)

The **Sourcing with SAP Ariba Sourcing (4BL)** scope item supports the integration of SAP S/4HANA with SAP Ariba Sourcing using SAP Integration Suite, managed gateway for spend management and SAP Business Network. Buyers must configure SAP S/4HANA, SAP Ariba Sourcing, and SAP Integration Suite, managed gateway for spend management and SAP Business Network to send and receive documents to and from SAP S/4HANA.

The **Sourcing with SAP Ariba Sourcing (4BL)** integration scenario between SAP Ariba Sourcing and SAP S/4HANA extends support for the following document types:

- RequestForQuotation
- RFQConfirmation
- SupplierQuotation
- QuotationConfirmation

You can find more information about this integration scenario in the following document:

Release version	Feature overview	Setup instructions
2020 FPS01	Sourcing with SAP Ariba Sourcing (4BL)	SAP Note: 3012778

Service Procurement with SAP Business Network and SAP Fieldglass (4R2)

The **Service Procurement with SAP Business Network and SAP Fieldglass (4R2)** integration scenario involves integration between SAP S/4HANA, SAP Fieldglass, and SAP Business Network for services procurement and supports the exchange of documents such as orders, service sheets, and invoices.

Service entry sheets created in SAP Fieldglass against lean-service orders created in SAP S/4HANA can be delivered via SAP Business Network to SAP S/4HANA for approval. SAP Business Network creates invoices against approved service entry sheets and sends them to SAP S/4HANA for approval. Approval of service entry sheets and the associated invoices occur in SAP S/4HANA. All data is routed through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

You can configure the test endpoints for SAP Fieldglass tenants. The supported document types are ERSInvoiceMapperXML (Invoice), StatusUpdateRequest (Invoice SUR), sow (OrderRequest), SOWREVISION (ChangeOrderRequest), and ServiceEntrySheetStsNotifMsg (SES SUR). For more information, see [Managing Endpoints](#).

Prerequisites

- Ensure that the [Automation of Source-to-Pay with SAP Business Network \(42K\)](#) scope item is activated.
- Ensure that you've completed all settings for SAP Integration Suite, managed gateway for spend management and SAP Business Network mentioned in the 42K setup guide.
- To set up service procurement with SAP Business Network and SAP Fieldglass, you need to configure the endpoints for your SAP Fieldglass test environment:
SAP Fieldglass supports multiple test environments. You need to select and configure the relevant test environment to be able to test your integration. To configure the endpoints for your SAP Fieldglass test environment, follow the procedure described in [Managing Endpoints](#).

Related Information

[Service Procurement with SAP Business Network and SAP Fieldglass \(4R2\)](#) 

[Setting Up Service Procurement with SAP Business Network and SAP Fieldglass \(4R2\)](#) 

Contract for Central Procurement with SAP Ariba Contracts (4BO)

Buyers can integrate SAP S/4HANA Central Procurement with SAP Ariba Contracts using SAP Integration Suite, managed gateway for spend management and SAP Business Network.

With the **Contract for Central Procurement with SAP Ariba Contracts (4BO)** scope item, the buyers can create and send contracts with the document category, **Central Contract**, from SAP Ariba Contracts to SAP S/4HANA that is configured as the central hub.

To integrate central contracts between SAP S/4HANA and the contract workspace in SAP Ariba Contracts using SAP S/4HANA APIs, you must maintain the following in SAP Integration Suite, managed gateway for spend management and SAP Business Network:

Field	Value
Transport Type drop-down list (on the Connection page)	CloudConnector
Business Process drop-down list (on the Mappings page)	Contracts The Contracts business process includes the following document types: <ul style="list-style-type: none">• PurchaseContractRequest• PurchaseContractStatusUpdateRequestImportRequest

You can find more information about this integration scenario in the following documents:

Release version	Feature overview	Setup instructions
2020 FPS01	Contract for Central Procurement with SAP Ariba Contracts (4BO)	SAP Note: 3018716

Automation of Central Procurement Quotes with SAP Business Network (5JT)

Automating Central Procurement Quotes (cRFQs) with SAP Business Network (5JT)

Central Procurement consolidates multiple requisitions received from multiple connected SAP S/4HANA systems into a single quotation called Central RFQ (cRFQ). The cRFQs are sent to SAP Business Network Discovery through SAP Integration Suite, managed gateway for spend management and SAP Business Network. In addition, buyers also create RFQs, as part of the Quote Automation flow, in Central Procurement and send them to SAP Business Network Discovery through SAP Integration Suite, managed gateway for spend management and SAP Business Network.

When suppliers submit their responses in SAP Business Network Discovery, the `Quote Message` is sent to SAP Integration Suite, managed gateway for spend management and SAP Business Network. An optional extrinsic in the `Quote Request` and `Quote Message` cXML documents allow SAP Integration Suite, managed gateway for spend management and SAP Business Network to identify cRFQs and route the related supplier responses from SAP Business Network Discovery back to Central Procurement. This new extrinsic is called `quoteBusinessObject`:

Extrinsic	Sample Code
<code>quoteBusinessObject</code>	<pre><!-- Sample Code --> <QuoteRequest> ... <QuoteRequestHeader> <Extrinsic name="quoteBusinessObject">central</Extrinsic> </QuoteRequestHeader> ... </QuoteRequest></pre>

- If the extrinsic value implies cRFQ as shown above, SAP Integration Suite, managed gateway for spend management and SAP Business Network sends the responses to Central Procurement.
- Otherwise, the responses are handled according to the Quote Automation flow.

ⓘ Note

Similarly, for `Quote Message`, the extrinsic is available under `QuoteMessageHeader`.

You can find more information about this integration scenario in the following documents:

Feature Overview	Setup Instructions
Automation of Central Procurement Quotes with SAP Business Network (5JT)	Setting up Automation of Central Procurement Quotes with SAP Business Network (5JT) 

Subcontracting with SAP Business Network (5I2)

The SAP S/4HANA to SAP Business Network integration through SAP Integration Suite, managed gateway for spend management and SAP Business Network supports the exchange of documents related to standard procurement and subcontracting processes. This supports the integration of contract manufacturing for the SAP S/4HANA buyers and suppliers using direct materials. Buyers can collaborate with contract manufacturers who are registered as suppliers on SAP Business Network and send subcontracting purchase orders and associated transaction documents to contract manufacturer suppliers in the 5I2 integration scenario.

SAP S/4HANA customers using the Subcontracting with SAP Business Network (5I2) integration scenario can now use the following features:

- Buyers can process the packaging information with handling units in ship notices sent by suppliers from SAP Business Network. When a buyer creates or updates packaging instructions, those instructions are transferred to SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network. The transferred instructions are then available to a supplier to pack the material using handling units via advanced packaging wizard during ship notice creation for that buyer.
- Details of batch managed materials are included for subcontracting components in Component Ship Notice (Outbound Delivery) and Advance Ship Notice (Inbound Delivery), and for finished materials in Advance Ship Notice (Inbound Delivery). When you create a subcontract order in Purchasing, you can determine which batch of the subcontracting component is to be delivered to the subcontractor. This may be useful, for example, if the material for subcontracting requires specific characteristics that you map in your system using batches. The following details of batch managed materials are included in the respective transactions:

Transactions	Details of Batch Managed Materials
For subcontracting components in Component Ship Notice (Outbound Delivery) sent by SAP S/4HANA Cloud Public Edition buyers.	<ul style="list-style-type: none"> Buyer batch ID Supplier batch ID Production / Manufacture date Expiry date of batch-managed materials
For subcontracting components in Advance Ship Notice (Inbound Delivery) received from the SAP Business Network supplier.	<ul style="list-style-type: none"> Buyer batch ID Supplier batch ID
For finished materials in Advance Ship Notice (Inbound Delivery) received from the SAP Business Network supplier.	<ul style="list-style-type: none"> Supplier batch ID Production / Manufacture date Expiry date of batch-managed materials

You can find more information about this integration scenario, please see [Subcontracting with SAP Business Network \(5I2\)](#).

Support for MRP Exception Change Requests (J44)

Integration support for Material Requirements Planning (MRP) exception change requests in purchase orders sent from SAP S/4HANA to SAP Business Network as part of the MRP cycle.

Material Requirements Planning enables your planning department to automate procurement planning. The main function of MRP is to guarantee material availability and to avoid delays in order fulfillment. The planning run checks availability of each material and, in case of shortages, creates purchase requisitions, or delivery schedules if a scheduling agreement exists. The remaining shortages are displayed in the MRP application where the material planner can analyze the situation.

ⓘ Note

Integration with SAP Business Network is **optional** in the J44 integration scenario.

As part of integration support for MRP, purchase order change requests sent from SAP S/4HANA, buyers have the ability to inform their suppliers on SAP Business Network about change requests occurring during MRP. These change requests are generated during MRP. Such change requests may affect the purchase orders being worked on by suppliers. Buyers can arrive at an agreement with their suppliers on the changes before sending a change purchase order.

This includes three process steps:

- MRP change request
- MRP change request response
- MRP change request confirmation

The purchase order change requests include planned changes to requested quantity and delivery date at schedule line level.

Suppliers in turn can send their responses to change requests from SAP Business Network to their buyers using SAP S/4HANA with an acceptance, rejection, or alternative changes proposed.

SAP S/4HANA sends an MRP change request confirmation after an MRP change request response is processed.

Prerequisites

Suppliers using SAP Business Network must be enabled for SAP Business Network for Supply Chain.

Restrictions

- There is no support for change requests to scheduling agreements or scheduling agreement releases.
- Suppliers can make only one response or proposal per change request.
- Buyers can make only one response or proposal to a supplier's response per change request.

Related Information

[Order change requests tile for the supplier Workbench](#)

Central Procurement with SAP Business Network for Procurement (6BJ)

Integrating SAP S/4HANA with SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network, supports the exchange of documents related to standard procurement processes, such as purchase orders and order confirmations.

Create central purchase orders in the central procurement hub system by pooling purchase orders from connected systems, such as SAP ERP, SAP S/4HANA, or ECC. The purchase orders are sent to SAP Business Network and the required suppliers are notified. Suppliers submit their order confirmation through the SAP Business Network. The supplier's order confirmation is sent from the SAP Business Network to either the hub or connected system. As soon as the supplier starts the release and approval process for a purchase order, the status is updated in the connected system. For information on how to set up 6BJ, please see [3539695](#).

Appendix: Integration with SAP Central Invoice Management

SAP Ariba Central Invoice Management Integration with Invoice Status Portal in SAP Business Network

Buying organizations can send invoice details including status from SAP Ariba Central Invoice Management to invoice status portal in SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network. If a buying organization has configured the invoice status portal in SAP Business Network, suppliers can view the invoice details including status in the invoice status portal in SAP Business Network.

SAP Integration Suite, managed gateway for spend management and SAP Business Network transforms the invoice documents received from SAP Ariba Central Invoice Management in the JSON format to cXML format. The cXML documents are then sent to the invoice status portal in SAP Business Network.

This integration supports invoices and invoice updates. SAP Integration Suite, managed gateway for spend management and SAP Business Network transforms invoices to CopyRequest cXML documents and invoice updates to StatusUpdateRequest cXML documents.

Buyers can track the invoice documents in the **Transaction Tracker** of SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Prerequisites

- You must have the integration enabled between SAP Business Network and SAP Integration Suite, managed gateway for spend management and SAP Business Network.
- You must enable the transaction rule to set up the invoice status portal. See [Enabling the Invoice Status Portal](#).
- You must set up a connection to SAP Ariba Central Invoice Management in SAP Integration Suite, managed gateway for spend management and SAP Business Network. See [Setting Up a Connection to SAP Ariba Central Invoice Management \[page 430\]](#).

For more information, see [Invoice Status Portal Configuration](#).

Related Information

[Display Invoice Data Export Logs](#)

[Configuring Outbound Processing](#)

Setting Up a Connection to SAP Ariba Central Invoice Management

Context

To connect SAP Integration Suite, managed gateway for spend management and SAP Business Network with SAP Ariba Central Invoice Management, you must configure a new project and upload the authorized certificate.

ⓘ Note

Skip this task if you are reusing the certificate that you have already configured for the connection between SAP Integration Suite, managed gateway for spend management and SAP Business Network and SAP ERP or SAP S/4HANA.

Procedure

1. Sign in to SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network. See [Navigating to SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network](#).

The **Home** page of SAP Integration Suite, managed gateway for spend management and SAP Business Network portal appears.

2. Configure the basic data with the following values. See [Configuring the Basic ERP Information](#).

- **ERP Name:** Select **NextGenInv**.
- **ERP Version:** Select **CIM1Inv**.
- **System ID:** Enter a value. For example, **CIMConnection**.

ⓘ Note

This value is not your backend system ID.

3. Create a new project. See [Creating a Project](#).
4. Go to the **Connection** step.
5. Click **Add new connection**.
6. In the **Please Provide Your Connection Details** section, enter sample values in the mandatory fields such as:

ⓘ Note

The sample values that you enter in the **Please Provide Your Connection Details** section are not considered by SAP Integration Suite, managed gateway for spend management and SAP Business Network as this task is needed only to upload the authorized certificate.

- **Transport Type:** Select **HTTPS**.
- **Environment:** Choose your connection as **Test**, **Production**, or both.
- **Name:** Enter a value. For example, **CIMConnection**.
- **System ID:** Select **CIMConnection**.

7. In the **Inbound to Trading Partner** section, enter sample values in the mandatory fields such as:

- **Document Type:** Select **CIMInvoice**.
- **URL:** Enter a value.

ⓘ Note

The sample value that you enter in the **URL** field is not considered by SAP Integration Suite, managed gateway for spend management and SAP Business Network as this task is needed only to upload the authorized certificate.

- **Authentication Type:** Select **Certificate**.

ⓘ Note

No action is needed for the **Authentication Certificate** field.

8. In the **Outbound from Trading Partner** section:

- **Authentication Type:** Select **Certificate**.
- **Authentication Certificate:** Click the **Authentication Certificate** field. A certificate dialog appears. Add your certificate or reuse an existing one. If you want to reuse a certificate that you already added, choose it in the **Certificate Name** section.

9. Click **Save**.

A connection is set up with SAP Ariba Central Invoice Management.

ⓘ Note

It takes a few seconds before the connection is made available for use.

10. Go to the **Test** step to test the connection by sending invoice documents from SAP Ariba Central Invoice Management to SAP Business Network. See [Testing Project](#).

11. Deploy your project. See [Scheduling and Activating the Project on the Production Environment](#).

ⓘ Note

To skip the testing for Test Central, in the **Test** step, select **Skip Buyer Test**.

SAP Ariba Central Invoice Management Integration for PO and Non-PO Invoices in SAP Business Network

SAP Integration Suite, managed gateway for spend management and SAP Business Network provides the integration support to connect between SAP Ariba Central Invoice Management and SAP Business Network, so that buyers using SAP Ariba Central Invoice Management to process and consolidate their invoices, can receive all their supplier invoices on SAP Ariba Central Invoice Management via SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Prerequisites

- SAP Integration Suite, managed gateway for spend management and SAP Business Network is enabled on SAP Business Network.

ⓘ Note

This condition is not verified in SAP Ariba Central Invoice Management, because buyers are only required to enter ANIDs and company codes.

If SAP Integration Suite, managed gateway for spend management and SAP Business Network functions as part of another application subscription with the service manager, an instance will be created for that application, and the dependency of that application will be declared. This ensures that the SMS calls SAP Integration Suite, managed gateway for spend management and SAP Business Network when subscribing the application into a zone. This callback then is used to onboard the buyer into SAP Integration Suite, managed gateway for spend management and SAP Business Network.

- The buyer has tenant provisioned by SAP Ariba Central Invoice Management.
- You must set up a connection to SAP Ariba Central Invoice Management in SAP Integration Suite, managed gateway for spend management and SAP Business Network. See [Setting Up a Connection to SAP Central Invoice Management \[page 430\]](#).

Workflow for integration between SAP Ariba Central Invoice Management and SAP Business Network through SAP Integration Suite, managed gateway for spend management and SAP Business Network

The integration between SAP Ariba Central Invoice Management and SAP Business Network is established with the help of SAP Integration Suite, managed gateway for spend management and SAP Business Network in the following sequential steps:

1. A connection is established between SAP Integration Suite, managed gateway for spend management and SAP Business Network and SAP Ariba Central Invoice Management. See [Setting Up a Connection to SAP Central Invoice Management \[page 430\]](#).
2. Users of SAP Ariba Central Invoice Management can sign in to SAP Integration Suite, managed gateway for spend management and SAP Business Network through single sign-on (SSO) in SAP Business Network.
3. SAP Ariba Central Invoice Management initiates buyer onboarding. See [Onboarding a System to SAP Business Network](#).
4. SAP Ariba Central Invoice Management sends a sync message to SAP Integration Suite, managed gateway for spend management and SAP Business Network.
5. SAP Integration Suite, managed gateway for spend management and SAP Business Network stores the information contained in the sync message and replies with an HTTPS endpoint.
6. After the integration is established, buyers on SAP Ariba Central Invoice Management can access invoices posted on SAP Business Network.

When buyers in SAP Business Network send invoices posted by suppliers to SAP Ariba Central Invoice Management, SAP Integration Suite, managed gateway for spend management and SAP Business Network performs the following steps to route the documents from SAP Business Network to SAP Ariba Central Invoice Management:

1. SAP Integration Suite, managed gateway for spend management and SAP Business Network maintains information of the ANID and SAP Ariba Central Invoice Management tenant domain. Additionally, SAP Integration Suite, managed gateway for spend management and SAP Business Network also has a list of connected systems. For an invoice, based on the connected system ID for a given ANID, the tenant domain is determined.
2. SAP Integration Suite, managed gateway for spend management and SAP Business Network converts the document format from cXML into JSON 1INV that can be identified in SAP Ariba Central Invoice Management.
3. SAP Integration Suite, managed gateway for spend management and SAP Business Network routes invoices to SAP Ariba Central Invoice Management based on the combination of ANID and connected system ID of SAP Ariba Central Invoice Management maintained in the buyer's SAP Ariba Central Invoice Management tenant.

The application scenarios are as follows:

Scenario	Invoice Type in SAP Business Network	cXML Identifier	Invoice Type in SAP Ariba Central Invoice Management
The supplier submits an invoice in SAP Business Network to flip a purchase order or posts a cXML invoice, including invoices from the integrated supplier's backend system.	PO-based standard invoice	@purpose=standard OR @purpose=lineLevelDebit-Memo	Standard invoice
The supplier creates a PO-based credit memo.	PO-based credit memo	@purpose=creditMemo OR @purpose=lineLevelCreditMemo	Credit note
The supplier creates a Non-PO Non-PO standard invoice	Non-PO standard invoice	@purpose=standard	Standard invoice
The supplier creates a Non-PO Non-PO credit memo	Non-PO credit memo	@purpose=creditMemo	Credit note

SAP Integration Suite, managed gateway for spend management and SAP Business Network processes transactions based on status codes returned by SAP Business Network. The following table shows details:

Status Code	Meaning	Recorded Status
2xx	Transaction succeeded	Completed
4xx	Transaction failed	Failed
5xx	Transaction to be retried	Retry SAP Integration Suite, managed gateway for spend management and SAP Business Network automatically retries three times with a frequency of one hour.

Buyers can search and track invoices that are transmitted from SAP Business Network to SAP Ariba Central Invoice Management through the **Transaction Tracker** on SAP Integration Suite, managed gateway for spend management and SAP Business Network

For More Information

[Receive Invoices from SAP Business Network](#)

Appendix: Integrating SAP S/4HANA Cloud Public Edition or SAP S/4HANA with SAP Ariba Solutions Using SAP Integration Suite

This feature provides integration packages enabling buyers on SAP S/4HANA Cloud Public Edition or SAP S/4HANA to seamlessly integrate with SAP Business Network or SAP Ariba solutions using SAP Integration Suite in:

- Automation of Source-to-Pay with SAP Business Network (42K) integration scenario.
- Guided Buying Capability with SAP Ariba Buying (2NV) or Guided Buying for Central Procurement with SAP Ariba Buying (3EN) integration scenarios.

The feature introduces another integration option for buyers that have a license to SAP Integration Suite. You now have the flexibility to integrate your SAP S/4HANA Cloud Public Edition or SAP S/4HANA system using either SAP Integration Suite or SAP Integration Suite, managed gateway for spend management and SAP Business Network.

Related Information

[Automation of Source-to-Pay with SAP Business Network \(42K\) using SAP Integration Suite \[page 435\]](#)
[Guided Buying Capability with SAP Ariba Buying \(2NV\) or Guided Buying for Central Procurement with SAP Ariba Buying \(3EN\) Using SAP Integration Suite \[page 440\]](#)

Automation of Source-to-Pay with SAP Business Network (42K) using SAP Integration Suite

This feature provides an integration package enabling buyers on SAP S/4HANA Cloud Public Edition or SAP S/4HANA to seamlessly integrate with SAP Business Network using SAP Integration Suite in the 42K integration scenario to send and receive transaction data. The feature provides standard mapping content for 42K integration scenario allowing buyers to transform their transactional data with minimum configuration.

You can use the feature to transform the SOAP transactions from SAP S/4HANA Cloud Public Edition or SAP S/4HANA into cXML output supported by SAP Business Network

The feature introduces another integration option for buyers that have a license to SAP Integration Suite in the 42K integration scenario. You now have the flexibility to integrate your SAP S/4HANA Cloud Public Edition or SAP S/4HANA system with SAP Business Network using either SAP Integration Suite or SAP Integration Suite, managed gateway for spend management and SAP Business Network.

The feature uses the Cloud Integration capability within SAP Integration Suite. Cloud Integration provides a set of tools and applications that help you perform end-to-end tasks on development and deployment, packaging and publishing, accessing, and editing the integration content. For more information, see [Development for Cloud Integration](#).

SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network
Overview Guide

Appendix: Integrating SAP S/4HANA Cloud Public Edition or SAP S/4HANA with SAP Ariba Solutions Using SAP Integration Suite

Examples of the User Interface

The **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package is available in the SAP Business Accelerator Hub and SAP Integration Suite.

- In SAP Business Accelerator Hub:

The following figure displays the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package in SAP Business Accelerator Hub:

The screenshot shows the SAP Business Accelerator Hub interface. At the top, there is a navigation bar with links for Explore, Resources, Discover Integrations, and Partner with Us. On the right side of the header are several icons for sharing and favoriting. Below the header, a large blue banner displays the package title: "Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite". It also includes a brief description: "Integrate transactional data from SAP S/4HANA Cloud or SAP S/4HANA to SAP Business Network in the 42K integration scenario." Below the banner are three tabs: Overview (which is selected), Integration Flow, and Documents. Under the Overview tab, there is a section titled "About" with a note: "Use this package to transform the SOAP transactions from SAP S/4HANA Cloud or SAP S/4HANA into cXML output supported by SAP Business Network." A bullet point below states: "The package contains artifacts with supporting integration flow". To the right of this text is a small box containing vendor information: "Vendor: SAP" and "Version: 1.0.0". At the bottom right of the page, there is a "Feedback" link.

The following figure displays some of the artifacts in the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package in SAP Business Accelerator Hub:

ⓘ Note

You must configure the **Receive Transaction Documents** and **Send Transaction Documents** artifacts. You can optionally configure the other artifacts based on your business scenario. For more information, see [Artifacts in the Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite Package](#).

The screenshot shows the SAP Business Accelerator Hub interface. At the top, there is a navigation bar with the SAP logo, "Business Accelerator Hub", and links for "Explore", "Resources", "Discover Integrations", and "Partner with Us". Below the navigation bar, there are four cards representing integration flows:

- Send Payment Remittance from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network**: This flow involves transforming an outbound payment remittance document from SOAP format to cXML format. It is listed as Version 1.0.
- Receive Advance Ship Notice in SAP S4HANA Cloud or SAP S4HANA from SAP Business...**: This flow involves transforming an advance ship notice document from cXML format to SOAP format. It is listed as Version 1.0.
- Send Request for Quotation from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network**: This flow is listed as Version 1.0.
- Send Payment Remittance Cancel from SAP S4HANA Cloud or SAP S4HANA to SAP Business Network**: This flow is listed as Version 1.0.

- In SAP Integration Suite:

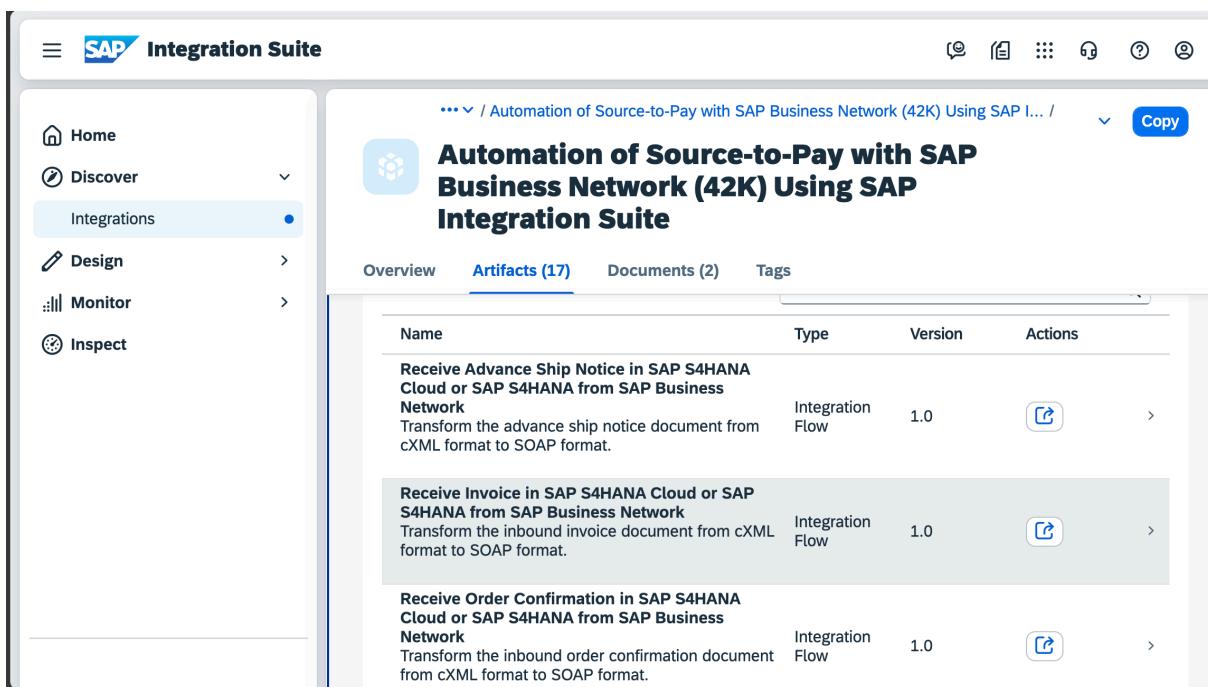
The following figure displays the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package in the **Discover** section of SAP Integration Suite:

The screenshot shows the SAP Integration Suite interface. The left sidebar has a navigation menu with options: Home, Discover (selected), Integrations (selected), Design, Monitor, and Inspect. The main area is titled "Discover (639)" and shows a search bar with the query "utomation of Source-to-Pay with SAP Business Network (42K) Using SAP Integrati". Below the search bar, it says "639 package(s) found". A card for the "Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite" package is displayed, showing its details: Published: 5 months ago, Version: 1.0.0, Vendor: SAP. There is also a link to "Integrate transactional data from SAP S/4HANA Cloud or SAP S/4HANA to SAP Business Network in the 42K integration scenario."

The following figure displays some of the artifacts in the **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite** package in the **Discover** section of SAP Integration Suite:

ⓘ Note

You must configure the **Receive Transaction Documents** and **Send Transaction Documents** artifacts. You can optionally configure the other artifacts based on your business scenario. For more information, see [Artifacts in the Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite Package](#).



Name	Type	Version	Actions
Receive Advance Ship Notice in SAP S4HANA Cloud or SAP S4HANA from SAP Business Network Transform the advance ship notice document from cXML format to SOAP format.	Integration Flow	1.0	Edit View
Receive Invoice in SAP S4HANA Cloud or SAP S4HANA from SAP Business Network Transform the inbound invoice document from cXML format to SOAP format.	Integration Flow	1.0	Edit View
Receive Order Confirmation in SAP S4HANA Cloud or SAP S4HANA from SAP Business Network Transform the inbound order confirmation document from cXML format to SOAP format.	Integration Flow	1.0	Edit View

To use the feature, you must implement the supporting integration flow templates in SAP Integration Suite. The integration flows integrate and route the transformed documents to and from SAP Business Network. In SAP Integration Suite, you can find the package, **Automation of Source-to-Pay with SAP Business Network (42K) Using SAP Integration Suite**. The package consists of artifacts that contain the integration flow templates for inbound and outbound communication, and different document types. You can choose to configure the required document types for your business scenario.

For example, if your business scenario involves the purchase order document type, you must configure and deploy the **Send Purchase Order from SAP S/4HANA Cloud Public Edition or SAP S/4HANA to SAP Business Network** artifact.

For more information on the artifacts, see [Artifacts in the Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite Package](#).

You can customize the feature to implement specific integration scenarios relevant to your business use case by extending the capability of the integration content provided by SAP. This approach allows you to retain the standard content provided by SAP without any modifications. See [Integration Flow Extension](#).

⚠ Caution

You can edit and modify the related integration flows contained in the standard integration package provided by SAP. However, further updates to the standard integration content in the SAP Business Accelerator Hub can't be applied to the modified content in your design workspace. Copying the updated standard package from the

SAP Business Accelerator Hub to the Design workspace of the tenant overwrites all your changes made to that package. See [Use Prepackaged Integration Content Provided by SAP](#).

To configure the feature, refer to [Configuring Automation of Source-to-Pay with SAP Business Network \(42K\) Using SAP Integration Suite](#).

Related Information

[Prerequisites and Restrictions \[page 439\]](#)

Prerequisites and Restrictions

Prerequisites

- You have a license to SAP Integration Suite.
- You have the necessary permissions to configure SAP Integration Suite. See [Initial Setup](#) and [Involved Roles](#).
- You have configured the service key that SAP S/4HANA Cloud Public Edition or SAP S/4HANA needs to connect to SAP Integration Suite.
- You have configured a certificate-based service key and uploaded the certificates of SAP Business Network to the **Process Integration Runtime** instance.
- Your SAP Business Network account is enabled for multi-ERP support.

ⓘ Note

If you are a single-ERP customer, you must enable multi-ERP support to use this feature. Based on the ERP system that you are using, ensure that you also configure the tasks listed in the following sections of either [SAP Best Practices for SAP S/4HANA Cloud, Private Edition Version](#) or [SAP Best Practices for SAP S/4HANA Cloud Public Edition Version](#):

- 5.3.2.10 Configure the End Points to Route Documents
- 6.3.1.1 Configure Unique Supplier IDs

For more information, see the prerequisites detailed in [SAP Best Practices for SAP S/4HANA Cloud, Private Edition Version](#) and [SAP Best Practices for SAP S/4HANA Cloud Public Edition Version](#).

Restrictions

The restrictions are detailed in [SAP Best Practices for SAP S/4HANA Cloud, Private Edition Version](#) and [SAP Best Practices for SAP S/4HANA Cloud Public Edition Version](#).

SAP Integration Suite, Managed Gateway for Spend Management and SAP Business Network Overview Guide

Appendix: Integrating SAP S/4HANA Cloud Public Edition or SAP S/4HANA with SAP Ariba Solutions Using SAP Integration Suite

Guided Buying Capability with SAP Ariba Buying (2NV) or Guided Buying for Central Procurement with SAP Ariba Buying (3EN) Using SAP Integration Suite

Starting SAP Ariba Release 2411, the **SAP Ariba Buying Integration with SAP S/4HANA** package is enhanced to support:

- Additional document types.
- Option to customize the integration flow templates.

This feature applies to buyers on SAP S/4HANA Cloud Public Edition or SAP S/4HANA who have a license to SAP Integration Suite and are using the Guided Buying Capability with SAP Ariba Buying (2NV) or Guided Buying for Central Procurement with SAP Ariba Buying (3EN) integration scenarios.

The package contains separate artifacts for new and existing customers. Along with additional document types, two separate artifacts that combine the passthrough scenarios have been introduced for new customers.

The **SAP Ariba Buying Integration with SAP S/4HANA** package supports transaction data. For master data, you can use the **Replicate Master Data** package. You can download the package from the [Business Accelerator Hub](#). For more information, see [setup instructions](#).

To configure the **SAP Ariba Buying Integration with SAP S/4HANA** package, refer to [Configuring Guided Buying Capability with SAP Ariba Buying \(2NV\) or Guided Buying for Central Procurement with SAP Ariba Buying \(3EN\) Using SAP Integration Suite](#).

Related Information

[Prerequisites \[page 440\]](#)

Prerequisites

- You have a license to SAP Integration Suite.
- You have configured SAP S/4HANA Cloud Public Edition or SAP S/4HANA, and SAP Ariba Buying for the 2NV and 3EN integration scenarios. For more information, see [Guided Buying Capability with SAP Ariba Buying \(2NV\)](#) and [Guided Buying for Central Procurement with SAP Ariba Buying \(3EN\)](#).

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