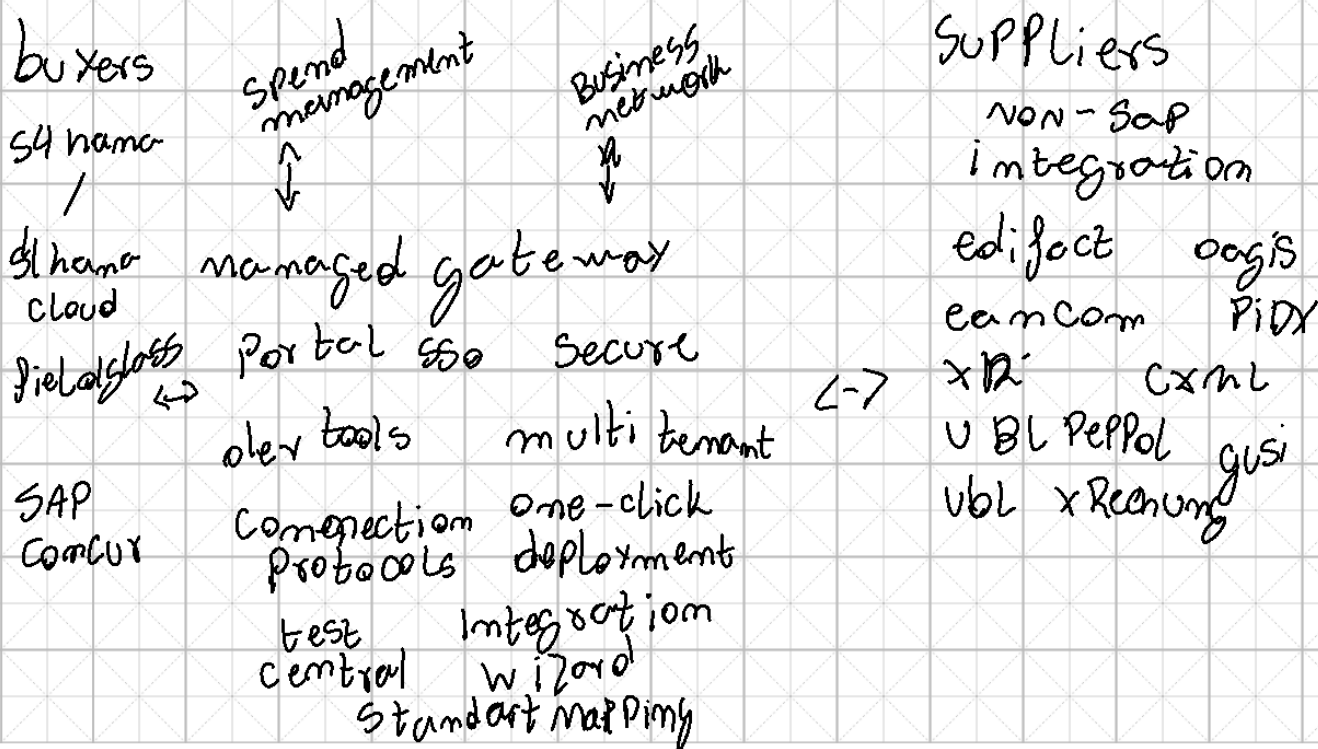


Defining SAP integration Suite, managed gateway for spend management and SAP business Network

- Simplifies tasks
- Provides tools
- Streamline and automate spend management process
 - Quickly connect to your SAP or other back-end systems
 - Simple to connect to trading partners
 - Intuitive self service tools
 - Automated upgrades and monitoring



Source to Pay

S2P integration challenges

- High cost
- Multiple use cases / Lots of data
- different document formats
- technical expertise isn't always available
- Balance

Value proposition

Simple	- Self-service	- Speed
Simple steps to integrate, configure, extend and test	self-service wizard to manage the process using step-by-step guidance	Shorter deployment with automated testing and embedded monitoring

Benefits and features -

- Connect once to the managed gateway using a single sign-on via SAP Business Network or SAP Ariba applications
- Access a Unified Gateway and tool set to integrate all of your source-to-pay processes
- Turn integration into a simple Scalable process
- Expedite formerly resource-intensive processes with work-saving developer tools
- Enjoy a fast time to value ratio
- Transform testing speed and efficiency

Key features -

- Self service setup wizard
- Deployment guides and standard mapping repository
- Work saving developer tools and automated testing
- Monitoring and communication protocols
- One click deployment and single sign-on

Correção quiz 1-

1- the SAP integration suite managed gateway has automated upgrades and complete transaction monitoring capabilities

- true

2- The managed gateway provides a simple way to connect to your SAP Ariba solutions, back end systems and trading partners

- True

3- What are the developer tools available in managed gateway? (2 answers).

- Document Validator

- Test connectivity

4- The managed gateway offers: (3 answers).

- single sign-on capabilities

- Support for basic certificate based authentication

- Multiple tenants for load balance

5- transactional tracker supports reprocessing of failed transactions

- True

6- What are the three main challenges of traditional source to pay integration? (3 answers).

- higher cost
- support for multiple data standards
- lack of required skills and expertise

7- Which of the following statements is NOT valid for managed gateway.

- Managed gateway offers integration with SAP IBP

8- What are the three key benefits of managed gateway?

- Leverage Unified gateway for integration all source-to-pay processes
- Fast time to value ratio
- Do it yourself integration process

9- What are the three main value propositions for SAP integration suite managed gateway for spend management and SAP Business network (3 answers)

- Simple
- Speed
- Self-Service

10- Which of the following communication protocols are supported in the managed gateway? (3 answers)

- RNIIF
- HTTPS
- AS2

Architecture -

SAP int suite

↓
managed gateway

↓
timed
accesses

→ - supplier lifecycle & performance management - sourcing & contract management - sourcing & contract management - buying & invoice management

Commerce - Dynamic SUPPLY Chain automation - Discounting - Collaboration

Extensibility - Inbuilt mapping tool
manage create, edit, or customize of versions
manage deploying or test on your SA
maintain on your SA

maintain bodies on your SAP ERP OR S4/HANA on premise

have required corresponding customizations done on your SAP Ariba realms

You can then map custom fields from source payload to that with the target payload and mapping tool

Extensibility Summary -

Extensibility Summary -

Value mappings can be added for specific attributes e.g. unit of measure

Existing mappings can be extended to include customer specific field

the add-on provides BADI's for all interfaces
SAP Ariba solutions support custom fields and
custom master data objects through out all
modules

Test Central - Inbuilt testing tool that helps execute
defined business scenarios in an
automated way

When the required quality criteria
are met the project can be promoted
into production

In case of failures you will review the
results and upon making the required
changes execute the scenario again

transaction tracker

Monitoring - complete
visibility of the transaction
lifecycle

Search criteria
- to filter and
locate a specific
transaction

ability to
download
before and
after payloads

reprocessing
option for
failed documents

Integration as a service

single integration platform for both buyers and suppliers

underlying SAP technology such as message mappings and flows are hidden to the end users

the integration flows are configured using self service wizard driven process

transaction monitoring is provided within the portal itself

All the processes can be fully extendable via mapping tool and SAP bodies

✓ No additional licence costs

✓ No middle ware to maintain

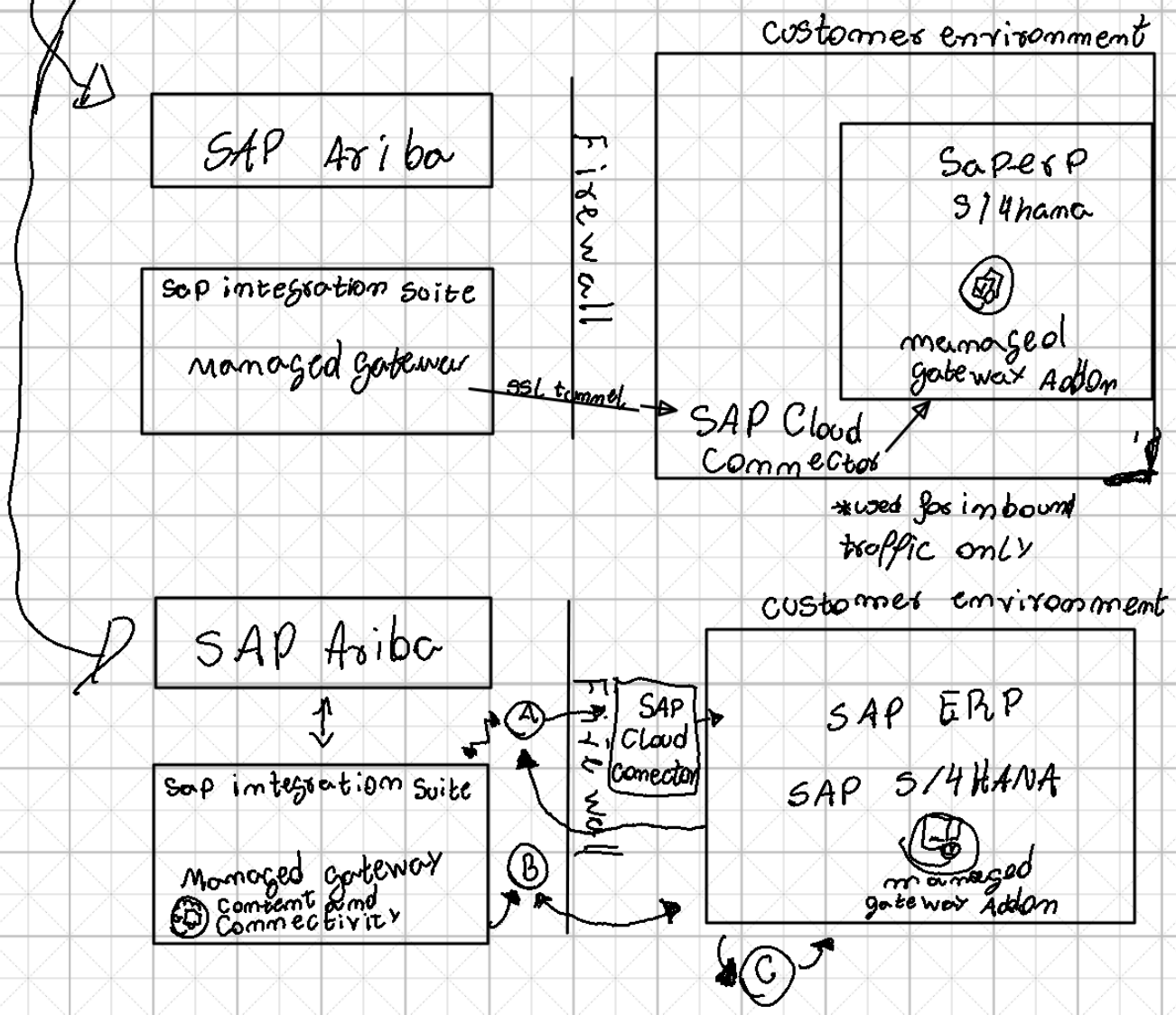
✓ SAP integration skills not required

Steps to integration Roadmap

- 1- Download and install Addon components -
 - ↳ Access SAP marketplace to download the delivered Addon Software Components
- 2- Configure and push information -
 - ↳ Perform basic configuration activities and push the required information to the managed Gateway using delivered reports.
- 3- Configure, customize and test scenarios -
 - ↳ Complete the remaining required configuration tasks; customize based on your business specific requirements and run end-to-end test routines
- 4- Promote to production and go live! -
 - ↳ Once the desired quality criteria are achieved after, push the project configuration to the production environment and go live to transact with your trading partners

Managed gateway deployment options

- Direct connectivity
- mediated connectivity



Ⓐ = SAP integration Suite Pvt. Tenant

Ⓑ = 3rd Party cloud integration

Ⓒ = SAP Process integration (PI)
SAP Process Orchestration (PO)

Support Metrics

Back	SAP ERP Supported Systems	SAP S/4HANA Supported Systems	
Back-End	For SAP ERP 6.0:		
	SAP EHP0 (SAP_APPL 600 SP22) SAP EHP2 (SAP_APPL 602 SP12) SAP EHP3 (SAP_APPL 603 SP11) SAP EHP4 (SAP_APPL 604 SP12) SAP EHP5 (SAP_APPL 605 SP09)	SAP EHP6 with non-HANA DB (SAP_APPL 606 SP05) SAP EHP6 with HANA DB (SAP_APPL 606 min supported) SAP EHP7 (SAP_APPL 617 min supported) SAP EHP8 (SAP_APPL 618 min supported)	On-Premise Editions: 1610, 1709, 1809, 1909, 2020, 2021, and 2022
	SAP_BASIS 700 SP27 is the SAP Basis version for all of the above SAP ERP Versions.		
AddOn	SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP ERP	SAP Integration Suite, managed gateway for spend management and SAP Business Network, add-on for SAP S/4HANA	
Software Components	Base Component	ARBCI1 100 – For EhP 0 and higher	ARBCI1 10S
	SAP Ariba Sourcing Service Contract feature only	ARBCI2 100 – For EhP 4 and higher	ARBCI2 10S
	RETAIL Article Master Data Integration only	ARBCIGR 100 – For EhP 0 and higher	ARBCIGR 10S
Add-On Language	English		
SAP PI / PO*	SAP PI 7.1; SAP PI 7.3; SAP PO 7.4, and SAP PO 7.5 *SAP Process Integration / Process Orchestration		
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		

Support Metrics

Back

SAP Ariba only supports the two versions of the support pack:

1. The current version (version n)
2. The version preceding the current version (version n-1) for SAP Integration Suite, managed gateway for spend management and SAP Business Network.

End-of-Support Notice:

CI Solutions & SAP Business Suite AddOn EoS: 31-December-2023



Support Metrics

Back

Before installing 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:

- **SAP Ariba:** ARBCI1 100 SP01
- **Enterprise:** EA-RETAIL EHP0 SP22
- **SAP Ariba Sourcing or SAP Ariba Contracts:** ARBCI2 100



Explaining the role of the cloud Connector

Sap cloud connector serves as the link between Sap business technology platform and existing on-premise systems.

Sap cloud connector runs as on-premise agent in a secured network and acts as a reverse in-edge proxy between the on-premise network and SAP Business Technology platform.

A single Cloud connector supports connectivity with multiple back-end SAP systems
easy setup with clear configuration

SAP cloud connector lets you existing on premise assets without exposing the entire internal landscape.

The cloud connector facilitates a secured communication between SAP Cloud platform or its products and your on-premise back-end SAP system

Invoke Proxy

An invoke proxy is a mechanism used in distributed computing to allow a client to make a remote procedure call (RPC) as if it were a local call. It acts as a local representative or "proxy" for a remote object.

A reverse invoke proxy is a mechanism that allows a server to make a remote procedure call (RPC) back to a client.

SAP Cloud Connector

- Reverse invoke proxy
- No firewall required
- Dummy "Host Name" and "Port" for a configured on-premise back-end system.
- Masks the identity of the backend system.
- Avoids exposing the information on physical hosts to CIG

Add-on Components

Add-on packages help you enhance your standard SAP system by adding custom functionality.

SAP integration suite, managed gateway add-on provides the necessary logic and code to configure and process the inbound and outbound documents or transactions in your back-end, on-premise SAP system. Thus, it becomes mandatory for all the customers to download and install the add-on in their SAP landscape.

Separate components are provided based on the back-end system type. The two types are:


- Arriba Cloud Int Sap E xp 6.0 (ECC) system
- Arriba Cloud Int Sap S/4 Hana on-premise system

Distinguishing Add-On Components with SAP ERP 6.0 (ECC)

Add-on Components with SAP ERP 6.0 (ECC)

The following tables provide the pertinent information about CIG add-on Components with SAP ERP 6.0 ERP Central Component (ECC) system:

SAP ERP	Usage	Pertinence
ARBCI1 100	Primary and mandatory component	All service packs (SP) and/or enhancement packs (EhP) levels
ARBCI2 100	Optional component required if you're a customer using the Contract Services feature of SAP Ariba.	EhP 4 and higher
ARBCIGR 100	Optional component required if you're a customer using the Retail Article Master Data feature of SAP Ariba Sourcing.	All SP and/or EhP levels

SAP ERP	Add-on Components	Attribute Change Package (ACP)
EhP0-EhP3 	Mandatory – ARBCI1 100	Not Applicable
	Optional – ARBCIGR 100	Not Applicable
EhP4-EhP7	Mandatory – ARBCI1 100	Not Applicable
	Optional – ARBCI2 100	ARBCI2====100
	Optional – ARBCIGR 100	Not Applicable
EhP8	Mandatory – ARBCI1 100	ARBCI1====100
	Optional – ARBCI2 100	ARBCI2====100
	Optional – ARBCIGR 100	Not Applicable

Distinguishing Add-on Components with SAP S/4HANA

Add-on Components with SAP S/4HANA

The following tables provide pertinent information about managed gateway add-on components with SAP S/4HANA on-premise system:

SAP S/4HANA On-Premise	Usage	Pertinence
ARBCI1 10S	Primary and mandatory component	All SP levels
ARBCI2 10S	Optional component required if you're a customer using Contract Services feature of SAP Ariba Sourcing.	
ARBCIGR 10S	Optional component required if you're a customer using Retail Article Master Data feature of SAP Ariba Sourcing.	

SAP S/4HANA On-Premise	Add-on Components	Attribute Change Package (ACP)
All supported versions / editions	Mandatory – ARBCI1 10S	ARBCI1====10S
	Optional – ARBCI2 100	ARBCI2====10S
	Optional – ARBCIGR 100	Not Applicable

Sap integration suite, Managed Gateway Add-on



Allows you to send or receive documents from SAP Integration suite solutions and SAP ERP or SAP S/4HANA (on-premise) systems. This add-on has multiple modes to enable you to perform the required configuration activities in a sequential manner. In this add-on you'll typically find modes for these settings. Regardless of the integration, Global Settings config must be configured. In this add-on you'll typically find modes for:

- Global Settings
- General Settings
- Application-Specific Settings

Global Settings are the set of configuration activities you need to perform irrespective of the integration of any SAP Ariba solutions, such as Ariba Network Integration.

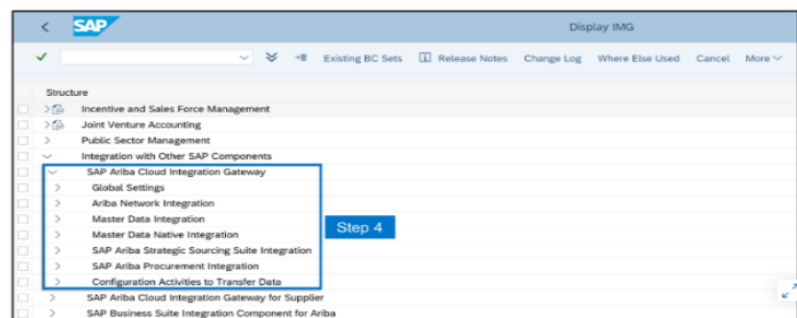
General Settings are the set of configuration activities you need to perform for a specific integration irrespective of the transactions/documents that you are adopting.

Application specific Settings are configured for a specific transaction/document.

How to Navigate in SPRO to Configure Add-on

To navigate to the add-on, follow these steps in SAP Integration Suite, managed gateway:

1. Enter transaction code `SPRO`.
2. Choose *SAP Reference IMG*.
3. From the options in the structure, select *Integration with other SAP components*.
4. Then select *SAP Ariba Integration Suite, managed gateway* (formerly *SAP Ariba Cloud Integration Gateway* [as pictured]).



Connecting to the Managed Gateway

there are three paths to connect and access the managed gateway:

- 1- SAP Business Network
- 2- SAP Ariba Sourcing
- 3- SAP Ariba buying and invoicing

You can connect and access the managed gateway either via your SAP Business network buyer account or via the SAP Ariba sourcing application or via the SAP Ariba buying and invoicing application.

Allways enable the managed gateway from the TEST account before enabling it from the PRODUCTION account.

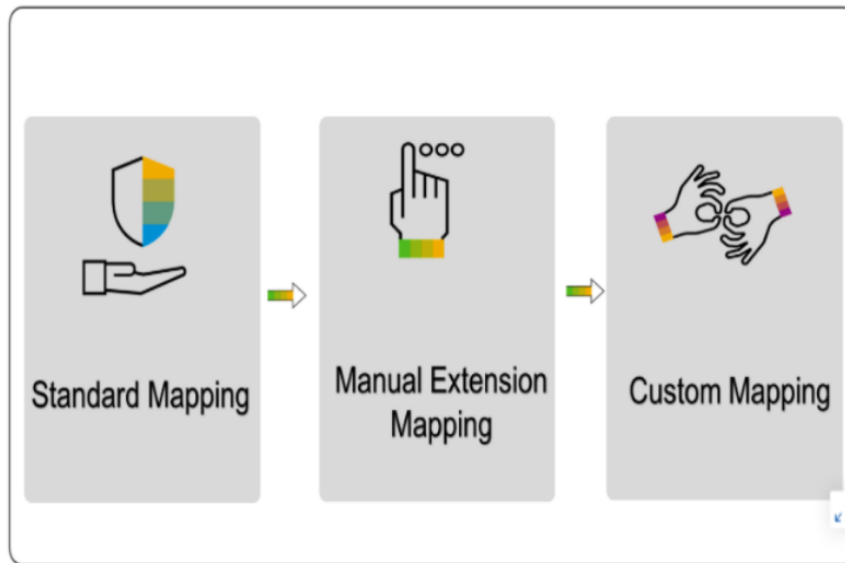
Mapping tool -

was introduced as part of the extension framework in SAP Integration Suite, managed gateway for spend management and SAP Business Network. This self-service tool helps to cope up with huge demand of custom mappings by enabling buyers to create their own custom mappings

there are three types of mappings -

Type	Definition
Standard mapping	The mappings that are delivered with every integration. The mapping transformations are delivered for every document type available in managed gateway for all customers.
Manual extension mapping	Mappings developed by the SAP Ariba Engineering team under special circumstances.
Custom mapping	The mappings created by customers using the managed gateway mapping tool.

Below is the execution flow of document mappings in managed gateway:



SAP Integration Suite, managed gateway allows buyers to retain the format in which they send the transaction documents between SAP ERP and SAP Ariba solutions. The managed gateway receives documents from SAP ERP or SAP S/4HANA system in a non-cXML format, transforms them into cXML format, and sends them to SAP Ariba solutions.

When you upgrade to a higher version of the managed gateway add-on, the mapping tool automatically migrates the custom mappings to the new version of the add-on.

Features of the mapping tool

- Create, edit and delete mappings
- Deploy, undeploy, and manage versions of 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 newly created custom mappings

Node Functions in the Mapping Tool

The following table displays the available node functions and their descriptions for the mapping tool:

Node Function in Managed Gateway

No.	Node function	Description
1	Add Constant Value	Constant values can be added to any destination field
2	Direct Mapping- One to One	Map a field from Source to Target
3	Add Source Condition	Conditions can be applied based on the position or value of the source element
4	Add Target Condition	Conditions can be applied based on the position or value of the field on the target element
5	Add For-Each	It can be used to create a target node set by looping over a source element
6	Group Multiple Condition	Multiple conditions can be grouped using OR, NOT, and AND operators, for custom mappings
7	Duplicate Node	Multiple Extrinsic or custom nodes can be created
8	Add Target Position Variable	Map source values to the target matching the target's occurrence position
9	Add Target Value Variable	Implements a conditional mapping that applies the mapping to a target matching a source condition of the Value Variable type
10	Choose-When	Map one or more source elements to one target element with a condition for each source element
11	Create/Replace Node	Creates a new node; This needs to be done when the node is not created via standard mapping
12	Delete Node	Used to delete the existing node or suppress the standard mapping against the selected node
13	Concat Function	Concatenate up to three source elements and map it to a target field
14	Substring Function	Choose a sub string from a source field and add to a destination field
15	Normalize Function	Remove additional whitespaces from the source XPath into the target item
16	Format Date Function	Set date pattern to be applied when writing the mapped date
17	Format Number Function	Set a number pattern to be applied on the mapped number
18	Translation Function	Translate a value of the source field to a different value and map it to the target field

Master Data

There are various objects created and maintained in your back-end SAP system.

These objects can be related to organizational data, accounting data, supplier data, user data, cross-application configuration data, funds management data and more.

They're imported into your SAP Ariba source-to-settle solution, such as SAP Ariba sourcing or SAP Ariba buying and invoicing. These objects are called **master data**.

Master data consists of general but important information stored in your back-end SAP system that is used in SAP Ariba source-to-settle solutions to construct various transaction documents such as contracts, requisitions, receipts or invoices.

The SAP Ariba Source-to-settle solutions provide the integration events for standard imports from the SAP system because your SAP system implementation can contain additional data to be included with the SAP Ariba

→

Source-to-settle solutions for different transactions documents, you can modify these data imports to include such supplementary data.

The add-on software components delivered for managed gateway have a standard program to extract necessary master data objects from your back-end SAP system and transmit it to the desired SAP Arriba source-to-settle solution.

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

Quiz-

1- Which of the following processes are not supported by the managed gateway in Supply Chain Collaboration? (2 answers)

- Vendor Data
- Real-time Budget check

2- Which statement is incorrect?

- Master data information is exported from SAP Ariba applications into your back-end system.

3- Which of the following processes supported by the managed gateway solution involves the purchase order document? (3 answers)

- Strategic Sourcing
- buying and invoicing
- Commerce Automation

4- The Dynamic Discounting functionality allows you to send buyer-initiated or supplier-initiated early payment requests to the system. - True

Migration steps for Cloud Integration and SAP Business Suite Add-on Customers.

Cloud integration Customers

- 1 enable managed gateway
- 2 Download SAP cloud connector
- 3 install and configure SAP Cloud connector
- 4 Download the managed gateway add-on
- 5 Install and configure the managed gateway add-on
- 6 Complete the pre requisite tasks
- 7 Run reports to migrate data
- 8 Run report to migrate transaction configuration
- 9 Run report to migrate BADI's
- 10 Manually migrate the required BADI's
- 11 Perform the post-migration tasks and additional configurations

Business suite Add-on Customers

- 1- enable managed gateway
- 2- Download SAP Cloud Connector
- 3- Install and Configure SAP Cloud Connector
- 4- Download the managed gateway Add-on
- 5- Install and Configure the managed gateway Add-on
- 6- Configure global settings
- 7- Configure general settings per transactions
- 8- Configure supported spend management and SAP Business Network transactions
- 9- Migrate the configurations from SAP Business Suite Add-on
- 10- Migrate the customizations
- 10- Reactivate the SAP Business Suite Add-on settings

