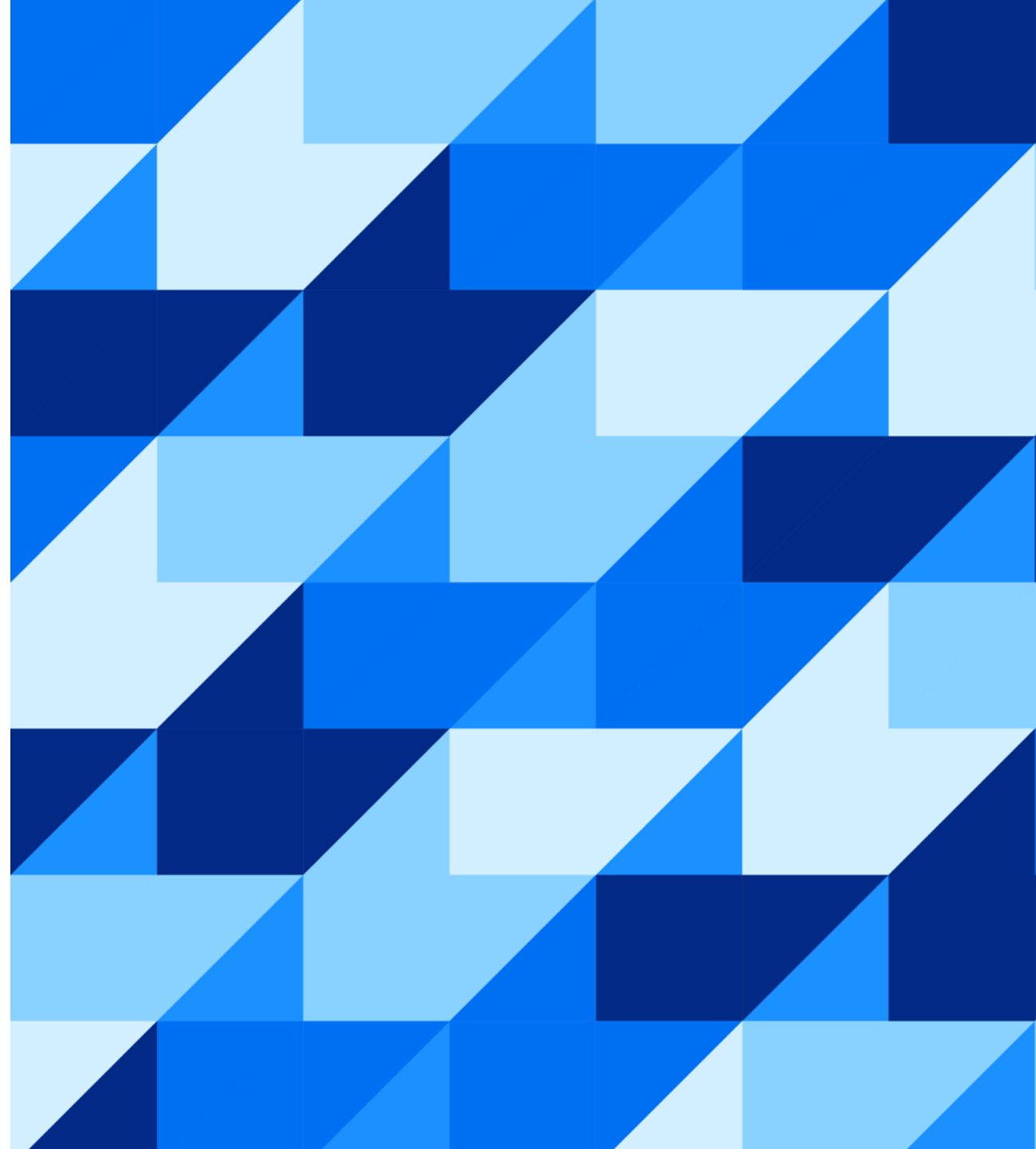


SAP Ariba Central Invoice Management- 4N6 Guide & Manual set up-Demo

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Agenda

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CIM Introduction

Purpose:

Unified solution for receiving and managing supplier invoices

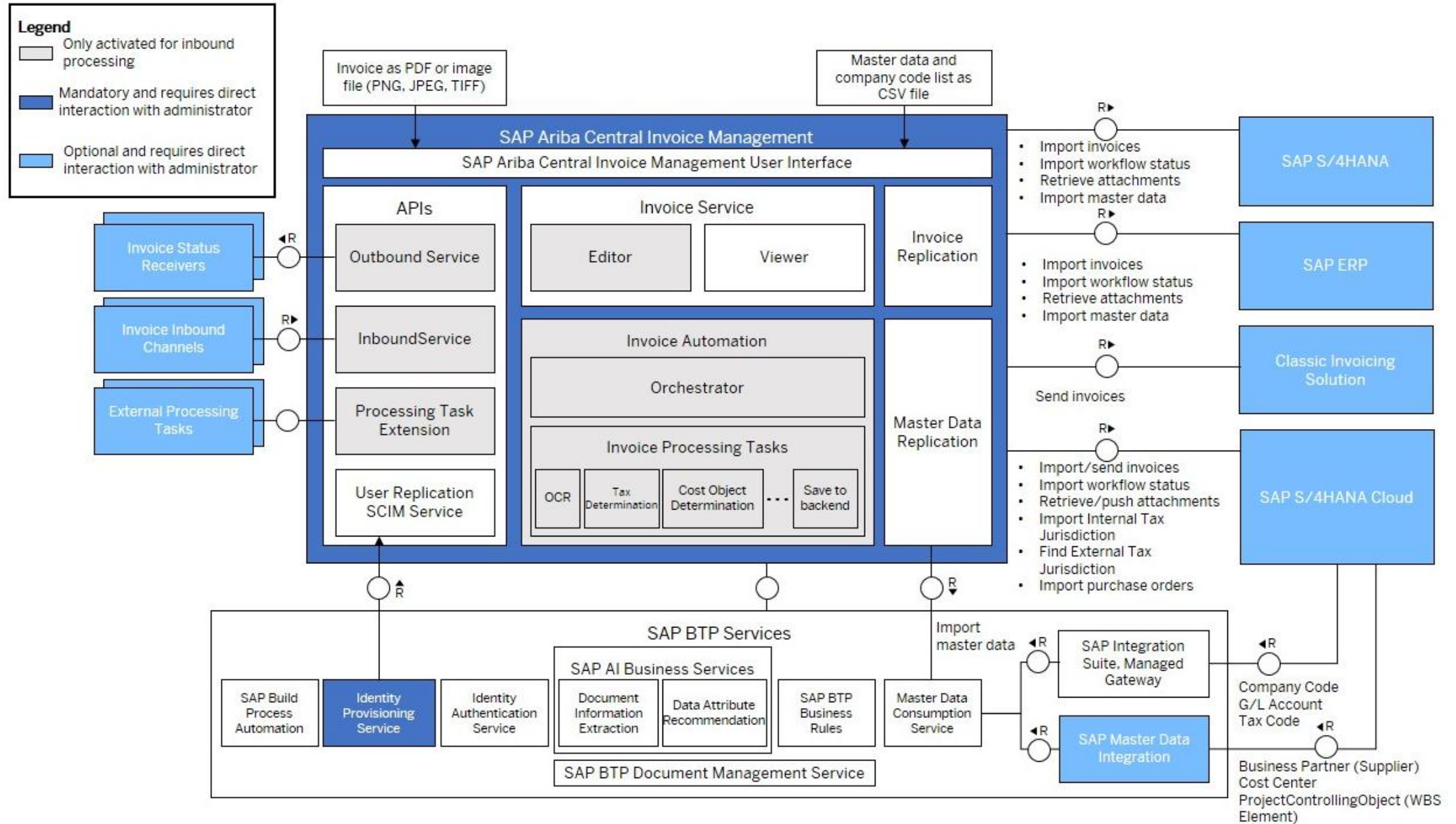
Key Features:

- Centralized invoice reception
- Integration with multiple backend systems (e.g., S/4HANA Cloud)
- Supports master data integration & tax calculation services

Benefits:

- Streamlined invoice processing
- Reduced manual effort
- Central visibility and control

Solution Overview & Architecture



System Landscape

Scope Items:

4N6 – Invoice Processing with CIM
5LE – Data Protection & Privacy

Business Roles:

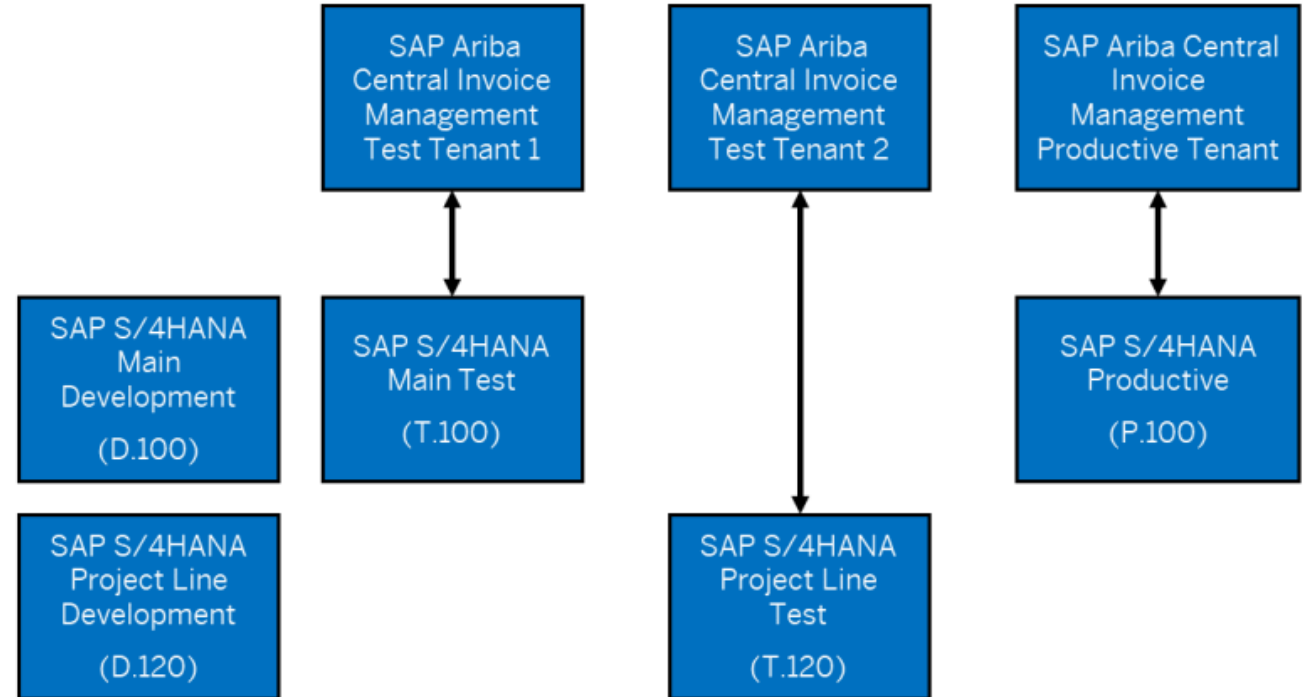
SAP_BR_ADMINISTRATOR
SAP_BR_BPC_EXPERT

Subscription Plans:

Test plan – For testing & validation
Standard plan – For productive usage
TDD plan – Test/Demo/Development license

Restrictions:

No multiple S/4 tenants to same CIM tenant
No Prod ↔ Test tenant connection



Prerequisites Checklist for set up

Roles & Access

You are a Global Account Administrator in SAP BTP Cockpit.

Your user has admin access to the Identity Authentication Service (IAS).

Service Entitlements and subscription plans

test, standard, tandd (Test, Demo, Development license)

Entitlement to SAP Central Invoice Management – Inbound Processing Module with standard (Application) plan.

Identity Authentication Service (IAS)

At least one IAS instance is configured in your global account.

S/4HANA registered system

At least one SAP S/4HANA system registered

Communication Scenario Check

Before activating scope item 4N6, ensure your S/4HANA Cloud Public Edition does not already have existing communication scenarios for (SAP-COM-0659 & SAP-COM-0594)

SAP Master Data Integration

SAP Master Data Orchestration

Technical Connectivity

Ability to download the S/4HANA Cloud Default Certificate.

Ability to create and export BTP Managed Certificate public key.

Post set up overview for CIM & MDI Subaccount

Subaccount	SAP Ariba Central Invoice Management (CIM)	Master Data Integration (MDI)
Destinations	✓ SAP S/4HANA Cloud Public Edition, ✓ MDCS	✓ S/4 HANA_BP, (BPCONFIRM) ✓ S/4 HANA_MDO
Instances	✓ SCIM Instance	✓ MDCS Instance, ✓ S/4 Instance
Subscriptions	✓ CIM, ✓ CIM Inbound	✓ MDO, ✓ MDI Tenant (Only for Booster)
Trust Setup	✓ With IAS Host	✓ NA
Environment	✓ With Space	✓ With Space
Comm. Arrangements	✓ SAP_COM_0516 ✓ SAP_COM_0897	✓ SAP_COM_0594 ✓ SAP_COM_0659 ✓ SAP_COM_0008 ✓ SAP_COM_0091
Role Collections	✓ Standard Role Collections for CIM	✓ Business Configuration Admin, ✓ Master Data Orchestrator Admin

Note: Manual set up for Communication scenario **SAP_COM_0179** for accounting master data integration via SAP Integration Suite, managed gateway.

Integration Flows

Integration	CIG	MDI	Direct Integration
Comm. Arrangements	✓ SAP_COM_0179	✓ SAP_COM_0594 ✓ SAP_COM_0659 ✓ SAP_COM_0008 ✓ SAP_COM_0091	✓ SAP_COM_0897 ✓ SAP_COM_0516
P-user creation	✓ Mandatory (Via CIAS procedure) or via Case	✓ NA	✓ NA
Communication User	✓ Mandatory and to be used in “Inbound user” in Comm arrangement	✓ Mandatory and to be used in “Inbound user” in Comm arrangement	✓ NA
Communication System	✓ Mandatory and to be used in Comm arrangement	✓ Mandatory and to be used in Comm arrangement	✓ Mandatory and to be used in Comm arrangement
Data Flow	✓ SAP S/4 HANA-> CIG->MDCS->CIM	✓ SAP S/4 HANA-> MDI->MDCS->CIM	✓ CIM <->S/4HANA system
Master Data	✓ Company code, GL Account, and Tax code	✓ Supplier (BP), WBS, Exchange Rate and Cost Center	✓ Invoice ✓ Purchase Order
Business Data Orchestration and Distribution Models	✓ NA	✓ Mandatory to have Push and Pull Models. Note: For BP only Pull model is needed.	✓ NA

Data & Configuration

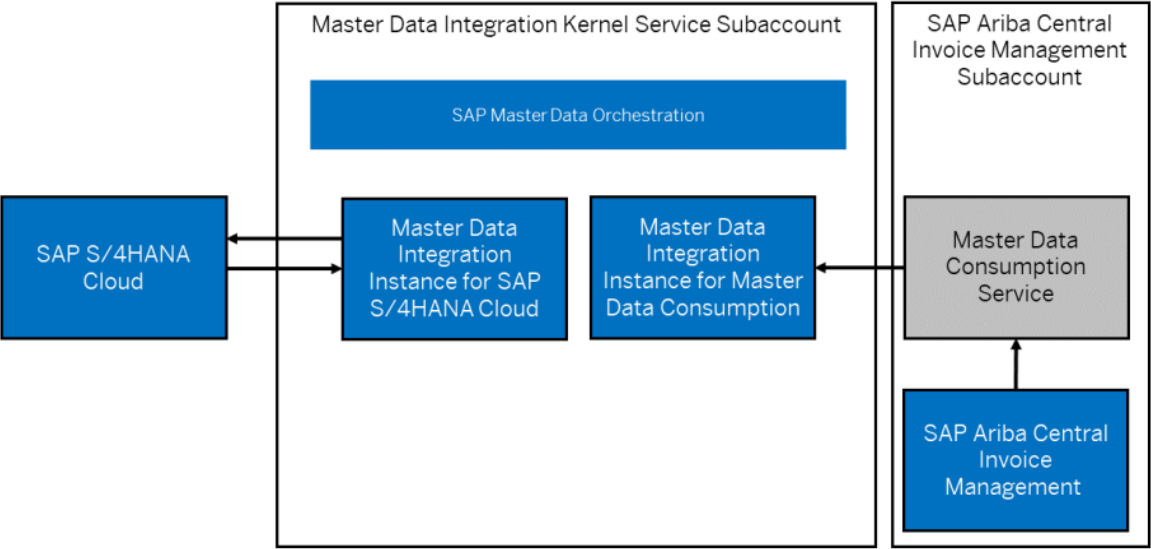
Master Data Replication Overview

- ✓ SAP S/4 HANA -> MDI ->MDCS->CIM (Supplier (BP), WBS and Cost Center)
- ✓ SAP S/4 HANA -> CIG ->MDCS->CIM (Company code, GL Account, and Tax code)
- ✓ SAP S/4 HANA -> CIM (Supplier Invoice, Purchase Order)
- ✓ CIM->SAP S/4 HANA (Invoice Scenario)

Communication Arrangement Setup

Arrangement	Description
SAP_COM_0008	Business Partner
SAP_COM_0594(MDO)/659(MDI)	WBS, Exchange Rate and Cost Center
SAP_COM_0179	CIG route: (Company code, GL, Tax code)
SAP_COM_0516	Invoice, Purchase Order
SAP_COM_0091	Supplier Blocking
SAP_COM_0897	User Interface Navigation from S4 -> CIM

MDI Integration with Data Models



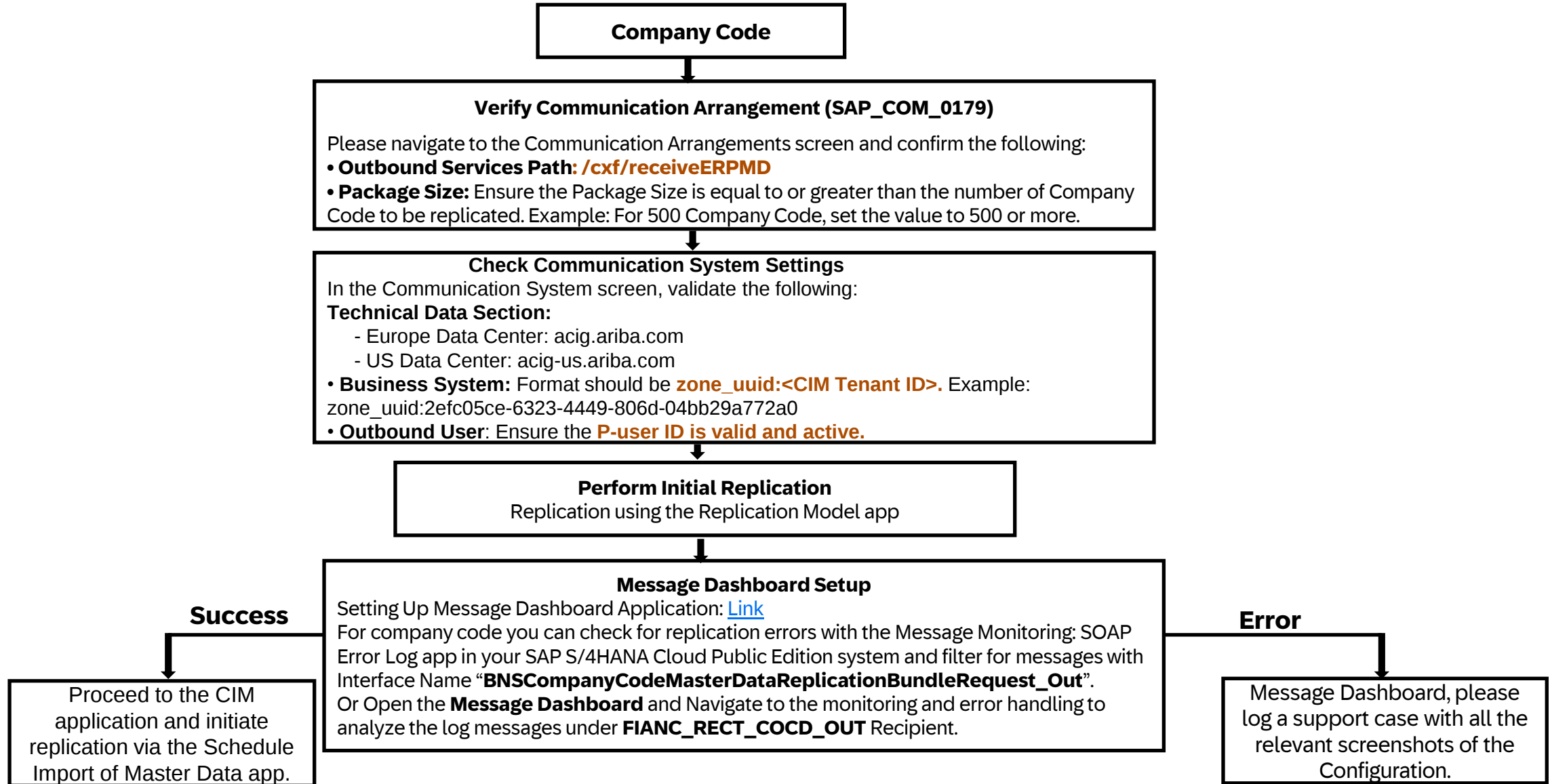
Distribution Models (6)						
	Model	Provider	Active	Mode	Recurrence	
☐	CC_MDCS_PL CC_MDCS_PL	MDI	Yes ☒	Pull	Minutes	>
☐	WBS_MDCSPL WBS_MDCSPL	MDI	Yes ☒	Pull	Minutes	>
☐	EX_RATE_PL EX_RATE_PL	MDI	Yes ☒	Pull	Minutes	>
☐	CC_MDCS_PH CC_MDCS_PH		Yes ☒	Push	Minutes	>
☐	BP-MDCS BP-MDCS	MDI	Yes ☒	Pull	Minutes	>
☐	EX_RATE_PH EX_RATE_PH		Yes ☒	Push	Daily	>

Configure distribution models in SAP Business Data Orchestration:

One push and one pull replication models to read from SAP S/4HANA Cloud Public Edition to SAP Master Data Integration for each of these master data entities: project controlling object and cost center.

One pull distribution model to read from SAP Master Data Integration to Master Data Consumption service for each of these master data entities: business partner, project controlling object and cost center.

Master Data Replication (CIG Flow)



Supplier (Business Partner)

Verify Communication Arrangement **SAP_COM_0008**, **SAP_COM_0594** & **SAP_COM_0659**

Please navigate to the Communication Arrangements **SAP_COM_0008** screen and confirm the following:

Under Business Partner -Replicate from SAP S/4HANA Cloud to Client:

- **Path:** It must be **/businesspartner/v0/soap/BusinessPartnerBulkReplicateRequestIn?tenantId=<IDENTITY_ZONE>**

Example: /businesspartner/v0/soap/BusinessPartnerBulkReplicateRequestIn?tenantId=cim-mdi-cc3716-rpnqvkkqx

- **Replication Model :** **BPMDI_CIM**, **Output Mode : D**, **Replication Mode: C**

- **Package Size:** Example: For 500 Supplier, set the value to 500 or more.

Check Communication System Settings

In the Communication System screen, validate the following:

Technical Data Section:

- **Host Name:** This value is the host of **uri** from SAP Master Data Integration Instance for SAP S/4HANA Cloud.
- **Business System:** Enter the **identityzone** from SAP Master Data Integration Instance for SAP S/4HANA Cloud Public Edition service key
- **Port and Logical System** should be as per 4N6 Guide Create Communication System for Supplier Integration (SAP_COM_0008)
- Verify the **Inbound user and Outbound user** details created as per the guide. [4N6 Guide](#)

Check the configuration on Distribution Model in SAP Business Data Orchestration for Business Partner

- Make sure the **Pull Model is Active** and there is no error.

Set up Destinations for SOAP Confirmation

A destination needs to be set for SOAP messages for confirmation of Business Partner replication from SAP Master Data Integration to SAP S/4HANA Cloud Public Edition. Please check [4N6 Guide](#) for the steps **under Set up Destination section**.

Perform Initial Replication

Replication using the Replication Model app

Success

Proceed to the CIM application and initiate replication via the Schedule Import of Master Data app.

Message Dashboard Setup

Setting Up Message Dashboard Application: [Link](#)
Open the **Message Dashboard** and Navigate to the monitoring and error handling to analyze the log messages under **CMD_BP Recipient** and check for OUT/0002

Error

Message Dashboard, please log a support case with all the relevant screenshots of the Configuration.

CIM Job Scheduling

Schedule Import of Master Data app in SAP Ariba Central Invoice Management is used to Create schedules to regularly import master data from the SAP S/4HANA

Prerequisites

You're assigned a **CIM_Replication_Admin** role.

In the connected system, the master data must only use 2-letter ISO language codes (ISO 639-1).

Recommended Order of Import

Each import job is specific to one type of master data, such as company codes or suppliers. When you first import master data for any connected system, we recommend importing the types of master data in the following order:

1. Company Code
2. G/L Account
3. Cost Center
4. WBS Element
5. Tax Code
6. Tax Jurisdiction
7. Supplier
8. Exchange Rate

Troubleshooting Guide & References

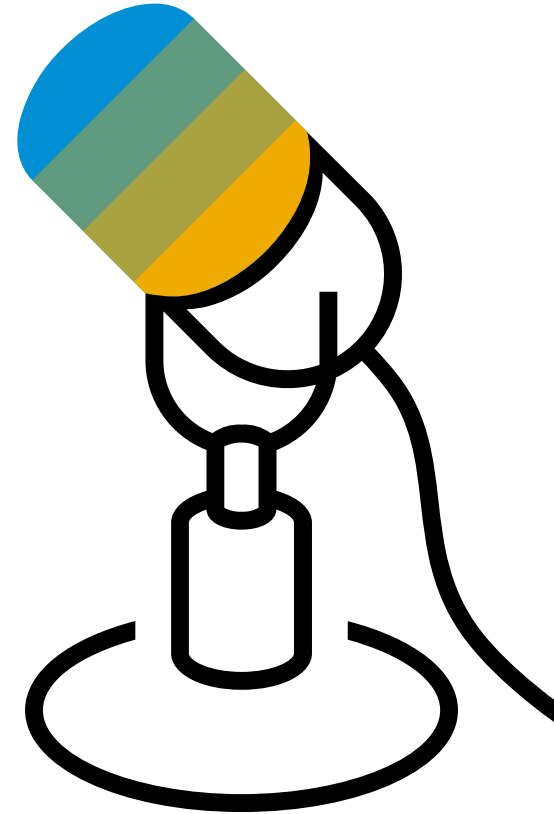
1. [Troubleshooting Guide for SAP Ariba Central Invoice Management](#)
2. [Replicating Master Data from SAP S/4HANA Cloud Public Edition and Checking Replication Status](#)
3. [Issues When Using Booster for Integration](#)
4. [Company Code replication/visibility issues](#)
5. [Unknow user issues in SAP Ariba Central Invoice Management](#)
6. [Configuring Distribution Models](#)
7. [Clean Up Resources Created from Failed Booster Run](#)
8. [Component Lists](#)
9. [Roadmap for SAP Ariba Central Invoice Management](#)

Any queries related to Quota/Entitlements:

Partner Support: tdd@sap.com

Customer Interaction Center: <https://support.sap.com/en/contact-us.html>

Q & A



Thank you.

