ERP-556 Integration Process - Supplier Purchasing Org & Currency Data sync from Syniti to Icertis - CPI Interface

Approved

Status	Approved
Owner	RAI-ext, Praveen
Stakeholders	BAVISKAR-ext, Amit ARORA-ext, Muskan KUMAR-ext, Rajesh
Jira Request ID	ERP-169 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	ERP-556 - Jira project doesn't exist or you don't have permission to view it.

High-Level Specification

Parameter	Value
Application System (Source)	Syniti interface ERP-555
Application System (Target)	Icertis interface ERP-731
Business Process Reference	03.03.02 Manage Suppliers

Functional Overview

Currently, Icertis syncs Supplier Master Data with SAP Ariba Sourcing, capturing supplier names and details. However, SAP Ariba Sourcing does not store Purchasing Organization or Supplier Preferred Currency information. This creates a gap because:

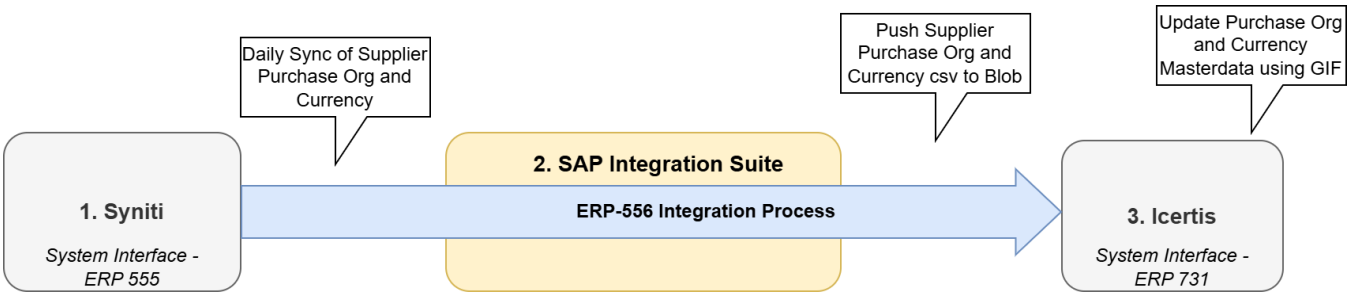
- Purchasing Organization is essential for filtering suppliers and for passing accurate data to SAP ECC/S4 when creating an Outline Agreement.
- Supplier Currency is required for invoicing purposes and must be consistently maintained across systems

To bridge this gap, integration process in SAP CPI is used to send Supplier details (**Purchasing Organization and Supplier Preferred Currency**) from Syniti to Icertis. This document describes the interface in SAP CPI which receives data from Syniti (ERP-555). SAP CPI will split the csv file received from Syniti into batches of 5000 records per file, name the files as per the standard naming convention (SupPorg_YYYYMMDDHHMMSS) acc epted by Icertis Generic Integration Framework (GIF) and load the payload files in Azure Blob Storage hosted in Icertis Azure Subscription

Scope and Objectives

- Enable Icertis to receive and store Purchasing Organization and Supplier Preferred Currency for each supplier from Syniti via CPI in Supplier POrg and Currency Masterdata **using GIF integration**
- Ensure consistency of supplier master data across systems.
- Support **full load during initial sync** and **full load updates daily**.
- Syniti will generate and send a CSV file to CPI daily which will be sent to Icertis for further processing through GIF integration
- CPI will **split** the csv file received from Syniti into batches of **5000 records each**.
- CPI will name the file as per the standard naming convention - SupPorg_YYYYMMDDHHMMSS

Sequence Diagram



Step	Description	Comment
1	Syniti sends supplier data csv file Supplier Name (Supplier Name + Purchase Org Code), Supplier ID, Supplier POrg Code, Supplier POrg , Supplier Preferred Currency and status) to CPI	Generates CSV file. Refer ERP-555 FS
2.1	CPI splits the file into batches of 5000 and follows the naming convention	SupPorg_YYYYMMDDHHMMSS (eg: SupPorg_20260121HHMMSS) **This document describes this step**
2.2	CPI pushes the files to below blob storage • Container Name– integration • Storage account name – syensqodevintegration • Path - SupplierPurchaseOrgandCurrency_Dev/Inbox	The batch files are uploaded to blob storage SAS URL is shared privately **This document describes this step**
3	Icertis will pick the files from blob storage and update Supplier Purchase Org and Currency master using standard GIF integration	Create/Update of the supplier master records in Icertis will be done using GIF integration - Refer RP-731 FS

Assumptions

- Supplier ID is unique and consistent across SAP and Icertis.

Dependencies

- Supplier integration from Ariba to Icertis should be executed before this load is executed
- Azure Blob Storage SAS Token must be active.
- CPI should have write permission on the Blob Storage path where the csv load is placed. This permission is granted by Icertis. In case if CPI is unable to place the files in the Blob Storage, an Icertis Support Ticket is required requesting write access to the Blob Storage Account and Container.
- CPI to receive the full load in single csv file as per the payload format provided from Syniti
- Icertis will provide SAS URL Token which will be used by CPI for connecting to Blob.
- The token expiry is set to 12 months
    - If the SAS URL token is expired, then IT Support Team should raise an Icertis Support Ticket to generate and configure new SAS URL in SAP CPI
    - Before expiry, IT Support Team can proactively request Icertis using support ticket to extend the validity of the SAS URL Token. As confirmed with Icertis, no reminder notification will be sent when SAS URL token is about to expire and an internal process needs to be defined within SyWay to monitor expiry of the SAS URL.

Security, Integrity and Controls

- CPI uses a time-limited, permission-scoped Shared Access Signature (SAS) token to authenticate with Azure Blob Storage. This ensures only authorized uploads are allowed, and the token cannot be used beyond its expiry date.
- The SAS token is scoped to the specific container and operation (write-only if possible), minimizing risk if the token is exposed.
- Unique, datestamped file names (e.g., `SupPorg_DDMMYYYYHHMMSS.csv`) prevent overwrites and support traceability.
- Only CPI (and authorized users/services) have the SAS token, and the token is extended before expiry.

Configuration Requirements

Technical Configuration

- **Azure Blob Storage**
    - **Storage account**: `syensqodevintegration`
    - **Container**: `integration`

- **SAS URL (containerscoped, HTTPS) -** shared separately
- **Path**: SupplierPurchaseOrgandCurrency_Dev/Inbox

- **Payload Preparation & Batching**
  - **CSV payload**: Supplier ID, POrg Code/Description, Preferred Currency, Status (Active/Inactive via ECC deletion flag).
  - **Batching**: Split into **5,000record per** files to align with GIF ingestion and operational limits
  - Ensure the **format of the batches** should be **exactly matching** the csv payload sent by Syniti.
  - **Rationale for splitting the files into batches of 5000 records:**

    As per Icertis Configuration Guide for GIF integration, the recommendation is to split the record into batches of 5000 records.

20	Whould would be the recommended record count for a file.	It is depending on the configured Contract type and envirnment instance configuration. Ideally we suggest to have max 5K records in each batch of file.

Functional Configuration

- Supplier Purchase POrg and Currency Masterdata Configuration must be created as per FS ERP-731

Special Requirements

- Not Applicable

Design Rationale

Data Structure

Source Structure (Syniti)

The following fields will be used to provide the required information for this interface:

Field in Icertis	Description	Table	Field in ECC	Data Element	Field Description	Example Values
EntityName: SupPorg	Static field which signifies the entity name in Icertis. This is how GIF recognizes which masterdata in Icertis needs to be updated. The value remains the same for every file	NA	NA	NA	NA	SupPorg (Always remains same in all loads)
SupplierName (Unique Key)	This is the unique key to be created by Syniti for all the records. The unique key should be created using combination "Supplier ID-Purchase Org Code	NA	NA	NA	Unique Key	Q0000383-YAE9
SupplierID	SAP ID of the supplier pulled from ECC systems	LFM1	LIFNR	LIFNR	Supplier	Q0000383
PurchaseOrg Code	Syniti to extract Purchase Org Code	LFM1	EKORG	EKORG	Purchasing Organization	YAE9
SupplierPurchaseOrg	Purchase Org Description. This will be combination of Purchase Org Code and Description	LFM1	EKORG	EKORG	Purchasing Organization	YAE9 - SYENSQOTMS
PreferredCurrencyUniqueName	Preferred currency of the Supplier	LFM1	WAERS	WAERS	Order Currency	EUR
SupPorgStatus	Status of the masterdata record	LFM1	LOEVM	LOEVM	Deletion flag purchasing organization	Yes - for Active No - for Inactive (marked for deletion)

Target Structure (Icertis)

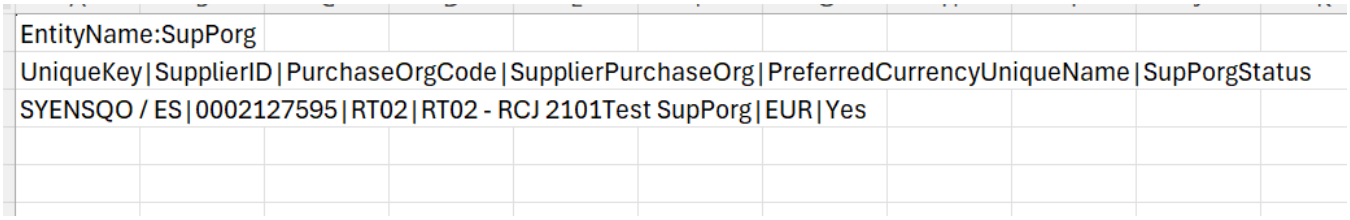
The following fields will be used to provide the required information for this interface:

Field	Description	Field Type	Max Length	Example Values

EntityName: SupPorg	Static field which signifies the entity name in Icertis. This is how GIF recognizes which masterdata in Icertis needs to be updated. The value remains the same for every file	String	1000 characters	EntityName: SupPorg (Always remains same in all loads)
Supplier Name (Unique Key)	The unique key should be created using combination "Supplier ID-Purchase Org Code	String	1000 characters	Q0000383-YAE9
Supplier ID (ICMSupplier ID)	SAP ID of the supplier pulled from ECC systems. The supplier ID referenced in Supplier Porg and Currency masterdata is derived from the Supplier Master in Icertis, which is synchronized from SAP Ariba.	String	1000 characters	Q0000383
Purchase Org Code (ICMPurchaseOrgCode)	Syniti to extract Purchase Org Code	String	1000 characters	YAE9
Purchase Org Description (ICMSupplierPurchaseOrg)	Purchase Org Description. This will be combination of Purchase Org Code and Description	String	1000 characters	YAE9 - SYENSQO TMS
Preferred Currency (ICMPreferredCurrencyUniqueName)	Preferred currency of the Supplier	String	1000 characters	EUR
Status (Status)	Status of the Master Data record	Label	NA	Yes or No

File Structure

Sample Payload:



Processing Logic

- SAP CPI receives the inbound Supplier POrg and Currency csv file from Syniti
- CPI will split the files in batches of 5000 records each.
- The naming convention will be SupPorg_YYYYMMDDHHMMSS.csv. As CPI can generate multiple files in one second, it is important to ensure that one file is generated per second to avoid duplicate naming of the payloads
- The processed data is transmitted to the Blob Storage Container
- If any error occurs during transformation or routing, CPI logs the issue and stops further processing.
- The interface follows a full-load approach, either the entire batch is successfully processed or the batch is rejected in full.

Interface Dependency

Not Applicable

Interface Constraints

Not Applicable

Delivery Requirements

- CPI to process the file into multiple batches of 5000 records and send it to blob container

Sequencing

Not Applicable

Delta or Full Load Requirements

- The integration processes all records as a complete batch; if any issue occurs, the entire batch is rejected
- Initial full load - Syniti to send full of Supplier ID, Porg and Supplier Preferred Currency data. (Around 35000 suppliers)
- Daily updates- Every day, Syniti will send the full load of the suppliers.

Interface Alert & Monitoring

- Alerts should be configured for:
  - Failure while uploading file to blob
  - Email notification to be sent to IT Support Admin incase of upload failure
- Monitoring tools (middleware logs) should notify:
  - Integration support team
- Retry logic should be in place for transient failures.

Interface Reporting

Not Applicable

Language Requirements

Not Applicable

User Interface Requirements

Not Applicable

Volumetrics

- Daily load will be around 65000 suppliers information
- If PORG relationship is accounted for, then the total number of records transferred to Icertis will be over 100k

Performance Consideration

- As CPI instantly splits the csv payload received from Syniti into multiple batches. Icertis GIF integration accepts only one naming convention with YYYYMMDDHHMMSS time stamp. Due to this the files generated by CPI in one seconds will have the same file name resulting in override and duplicity.
- It is recommended to generate the file batches of 5000 records per file with a delay of 1 seconds, meaning 1 file per second to be generated by CPI to ensure that file names are unique.

Error Handling

- SAS Token Expired/Connection Lost: CPI to send email notification to IT Support Team stating unable to connect with Azure Blob Storage
- CPI to retry 3 times every 1 hour to push the failed files to Blob Storage. If connection is still down even after 3 retries, files will be moved to Deadlock queue in CPI

Testing

How to Test

1. Split the csv received from Syniti into multiple batches of 5000 records each, push it to Blob Container
2. Naming convention of the files are generated correctly

Test Conditions and Expected Results

ID	Condition	Expected Results
TC01	Split the csv received from Syniti into multiple batches of 5000 records each, push it to Blob Container	Batches of 5000 records should be successfully placed in Blob
TC03	Validate naming convention of the file	File naming convention should be SupPorg_YYYYMMDDHHMMSS
TC03 - Negative	Unable to connect with Blob Storage	CPI should not be able to send files to Azure Blob, an email notification to be sent to IT Support Team stating connection with Blob failed.
TC04 - Negative	Only partial files processed successfully and remaining files failed due to connectivity issues	CPI will reprocess the failed files on the same day after connection issues are resolved.

Test Considerations/Dependencies

Not Applicable

Other Information

Mechanics of Azure Blob Storage

Azure Blob Storage is a **distributed, replicated, object storage system** where data lives as blobs inside containers within a storage account, exposed via HTTP APIs, autoscaled globally, tiered for cost, and secured through Azure identity & network controls. It is an **object storage**, designed for massive amounts of unstructured data. Its mechanics are built around three core layers:

- Storage Account - (the root namespace)
  - Everything starts with an Azure **Storage Account**, which acts as:
    - the **unique namespace** for all your blobs
    - the **billing boundary**
    - the container for redundancy, network rules, and performance tier
- Containers (logical folders)
  - A container organizes blob.
  - It cannot be nested, means we cannot create a container within another container. There won't be any sub-containers or child containers
  - defines default access levels
  - uses naming rules (lowercase, no spaces, hyphens allowed)
  - Containers help group logs, media, backups etc
- Blobs (actual data objects)
  - Actual files, media, logs are stored as blob
- Access Mechanism
  - There are two ways in which SAP CPI can access Azure Blob
    - Using SAP Azure Storage Adaptor
      - SAP provides an adaptor that supports CRUD operations for Azure Storage services. The blob can be authenticated using
        - SAS Token
        - Shared Access Key
    - Using CPI REST/HTTP Adapter and Azure Blob REST API

Development Details

Package

Package Name	Parent Package
Syniti To Icertis - MasterData Sync	NA

Other Development Objects

Object Type	Object Name	Purpose/High Level Logic	Design Rationale Reference
iFlow	Syniti_To_JMS_SupplierPorgCurrencyData	Receive the Supplier Purchasing Org data, split it into batches and store it in JMS Queues	Icertis recommended approach is to process 5K records per file only.
iFlow	JMS_To_Icertis_SupplierPorgCurrencyUpload	Generate the file in Icertis - Azure Blob Storage account for each message of the JMS Queue	Icertis require the supplier data in batches of 5K records per file to process.

Object Name	Configured/Externalized Parameters	Value
Syniti_To_JMS_SupplierPorgCurrencyData	QueueName	Icertis_SupplierPorgCurrData
	batchSize	4998

	EntityName	EntityName:SupPorg
JMS_To_Icertis_SupplierPorgCurrencyUpload	QueueName	Icertis_SupplierPorgCurrData
	storage-account-name	DEV - syensqodevintegration
	container	integration
	BlobPath	SupplierPurchaseOrgandCurrency_Dev/Inbox
	SASSecureParameter	Icertis_AzureBlob_Token

Security Material

Icertis_AzureBlob_Token	Secure Parameter

Appendix

Sample Payload of CSV file expected by Icertis from Syniti. Refer "Payload in CSV" worksheet

See also

File	Modified
Microsoft Excel Spreadsheet 555,556,731 - SupPorg_20260121073752.xlsx	Jan 26, 2026 by RAI-ext, Praveen

Change log

Version	Published	Changed By	Comment
CURRENT (v. 43)	**Feb 05, 2026 19:13**	**RAI-ext, Praveen**	
v. 42	Feb 04, 2026 10:01	**KUMAR-ext, Rajesh**	
v. 41	Feb 04, 2026 09:37	**KUMAR-ext, Rajesh**	
v. 40	Feb 02, 2026 06:10	**RAI-ext, Praveen**	
v. 39	Feb 02, 2026 06:09	**RAI-ext, Praveen**	

v. 38	Feb 02, 2026 06:08	**RAI-ext, Praveen**
v. 37	Jan 29, 2026 07:41	**RAI-ext, Praveen**
v. 36	Jan 29, 2026 07:39	**RAI-ext, Praveen**
v. 35	Jan 29, 2026 07:17	**RAI-ext, Praveen**
v. 34	Jan 29, 2026 07:15	**RAI-ext, Praveen**

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Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Feb 06, 2026	Actor	Type	Activity	Version
Approved	TILBEE-ext, Amanda	State	changed state to Approved at 9:20 am	v43
Lead Approval	TILBEE-ext, Amanda	State	gave *POD Lead Review* approval at 9:20 am	
Feb 05, 2026				
	MCARTHUR-ext, Richard	State	changed expiry date to '12 Feb, 2026 11:22 pm' at 11:22 pm	
		State	changed state to Lead Approval at 11:22 pm	v43
Edited following Tech Review	MCARTHUR-ext, Richard	State	gave *Minor change* approval at 11:22 pm	
From Feb 04, 2026 to Feb 05, 2026				
	KUMAR-ext, Rajesh and RAI-ext, Praveen	Edit	multiple updates from KUMAR-ext, Rajesh and RAI-ext, Praveen	