

ERP-105 System Interface - Master Data Integration from Syniti to Ariba

Status	Approved
Owner	
Stakeholders	
Jira Request ID	 ERP-38 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	 ERP-105 - Jira project doesn't exist or you don't have permission to view it.

High- Level Specification

Parameter	Value
Application System (Source)	Syniti
Application System (Target)	SCPI
Business Process Reference	

Functional Overview

Some Master Data that are required to construct sourcing events in Ariba Guided Sourcing can only be interfaced and there is no option to upload these manually in Ariba Guided Sourcing. CIG add-on provides standard integration program to integrate these master data from an SAP ERP system.

However, for this implementation, data from ECC systems need to be cleansed using Syniti so the source of the data will be technically Syniti and not ECC. With that, the standard CIG add-on cannot be used and thus, custom interface needs to be built.

The middleware to be used to implement the end-to-end integration will be SCPI. This document will explain integration point of Syniti to SCPI.

Scope and Objectives

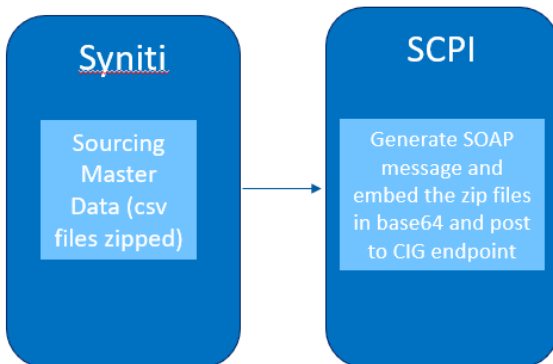
Required Master Data

Listed below are the required Master Data for Ariba Guided Sourcing that need to be interfaced. There will be a set of CSVs that needs to be prepared by Syniti.

Please refer to Appendix for the sample CSV files.

- CompanyCode.csv
- PurchaseOrg.csv
- PurchaseGroup.csv
- Plant.csv
- PlantPurchaseOrgCombo.csv
- PaymentTerms.csv
- Incoterms.csv
- IncoTermsDescriptionLang.csv
- ERPCommodityCode.csv
- ItemCategory.csv
- ItemCategoryDescriptionLang.csv
- Schema.csv

Process Flow Diagram



Step	Description	Comment
1	The execution of the interface is triggered manually	Sourcing Masterdata are not frequently changing, data transfer will be ran as needed.
2	Syniti will generate the Sourcing Master Data CSV files with correct filenames based on the structure required by Ariba Sourcing and zipped these	
3	Syniti will call a service in SCPI to send the zipped CSV files to SCPI	

Assumptions

- Syniti is able to extract the required master data which are standard SAP data
- Syniti can zip the CSV files and send these to SCPI by calling a service

Dependencies

System interface from Syniti to generate the csv files, zipped and call a service in SCPI.

Security, Integrity and Controls

The following are the Security and Authorization considerations for this interface:

- Define a Web Services Security certificate and/or the shared secret key to use to secure the End Point connection.
- Access to interface parameters in SAP Ariba Sourcing are being addressed by Ariba standard security controls. Only authorized person with Ariba administrator's role can access/ change interface parameters.
- Web service security configuration allows secure communications protocol provides a means for applying security to Web services.

Configuration Requirements

- Ariba provide integration tasks requires an External System Configuration for the logical communication channel used when the task is initiated by the SAP ERP using Managed Gateway system.

For Supplemental Realm:

External System ID	External System Name	Type
<Syniti_DEV>	<Syniti_DEV>	SAP ECC

Special Requirements

Not applicable

Design Rationale

Since there is no S/4HANA system for R2, it is needed to use another system as source. ECC can be used but this solution will use Syniti as the source because Syniti has the cleansed data available.

API Use

Data Structure

The following fields will be used to provide the required data structure of the interface:

Refer to the links below for the target structure:

Sourcing Master Data

Parent	Field	Description	Mandatory (Y/N)	Data Type

Calculation and Validation

Parent	Field	Rule Type	Rule Instruction

Processing Logic

- Syniti prepares a set of zipped CSV files based on the target structure requirements and calls a service in SCPI to send the zip files to SCPI.
 - The CSV filenames should be followed as shown below. The zip filename can be anything but the recommendation is to have a date stamp (SourcingMD_07222025.zip)
 - CompanyCode.csv
 - PurchaseOrg.csv
 - PurchaseGroup.csv
 - Plant.csv
 - PlantPurchaseOrgCombo.csv
 - PaymentTerms.csv
 - IncoTerms.csv
 - IncoTermsDescriptionLang.csv
 - ERPCommodityCode.csv
 - ItemCategory.csv
 - ItemCategoryDescriptionLang.csv
 - Schema.csv **(the content of this file will be constant. See the file in the Appendix section)**

Delta or Full Load Requirements

These data will always be required to be in Full Load so the content of the CSV files should be the full data.

Interface Alert & Monitoring

The following should be monitored:

- Interface is active (both inbound, process and outbound component)
- Failures on inbound, processing and outbound side need to be handled (restart, if still failure; skip and communicate)
- Messages are processed in reasonable time (XX elapse time)

Language Requirements

Not Applicable

User Interface Requirements

Not Applicable

Volumetrics

Performance Consideration

There are no specific performance requirements or considerations related to this interface.

Error Handling

The interfaces are based on standard integration content, mainly standard data mapping, so errors are unlikely but there are still foreseeable error scenarios related to data selection, data content, or data mapping.

Administrators can check errors using the following methods:

- Configure email notification alerts on the SAP Ariba application system to receive notification when an error occurs. This enables the administrator to log in to the SAP Ariba application to check the details of the errors.
- Directly log in to the SAP Ariba application and check the details of the errors. To correct the error, the administrator must ensure that the data inconsistency is resolved in the Syniti system and then must rerun the tasks for the Master Data again from the source system.

Testing

How to Test

Test Conditions and Expected Results

ID	Condition	Expected Results
	Sourcing MD files valid and complete	Data will be loaded in Ariba Sourcing
	Sourcing MD files in the request do not include the Schema.csv	The request will be completed in CIG but the status of the payload request will be Rejected with error "Schema file not found in payload."
	New records included in the Sourcing MD full files are posted	New records will be loaded in Ariba Sourcing
	Some records were removed from the full files	Specific records that were removed will be deactivated in Ariba Sourcing
	Sourcing MD files in the request do not include the ItemCategoryDescriptionLang.csv and IncoTermsDescriptionLang.csv	The request will be completed in CIG but the status of the payload request will be Rejected with error "Dependencies ariba.masterdata.xDescriptionLang are missing for type ariba.masterdata.x."

Test Considerations/Dependencies

Test data need to be available in ECC for Syniti's extraction.

Other Information

Development Details

Package

Package Name	Parent Package

Other Development Objects

Object Type	Object Name	Purpose/High Level Logic	Design Rationale Reference

Appendix

Sample CSVs in a zip file

See also

File	Modified
No files shared here yet.	

Change log

Version	Published	Changed By	Comment
CURRENT (v. 19)	Nov 27, 2025 14:29	MARGAL LO-ext, Oyie	Added Business Process Reference link
v. 18	Nov 12, 2025 15:07	EPASING HE-ext, Kapila	Minor change - title and HLS section
v. 17	Nov 06, 2025 02:55	EPASING HE-ext, Kapila	Updated HLS Table
v. 16	Aug 04, 2025 16:32	MARGAL LO-ext, Oyie	Changed the trigger from job schedule to manual run
v. 15	Aug 04, 2025 16:25	MARGAL LO-ext, Oyie	Updated the System ID from M23CLNT100 to Changed the System ID from M23CLNT100 to <5
v. 14	Jul 24, 2025 12:38	MARGAL LO-ext, Oyie	

v. 13	Jul 24, 2025 09:19	MARGAL LO-ext, Oyie
v. 12	Jul 23, 2025 11:21	MARGAL LO-ext, Oyie
v. 11	Jul 23, 2025 10:37	MARGAL LO-ext, Oyie
v. 10	Jul 23, 2025 10:19	MARGAL LO-ext, Oyie

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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.

From Nov 06, 2025 to Nov 27, 2025	Actor	Type	Activity	Version
Approved	EPASINGHE-ext, Kapila and MARGALLO-ext, Oyie	Edit	multiple updates from  EPASINGHE-ext, Kapila and  MARGALLO-ext, Oyie	
Aug 06, 2025				
	 TILBEE-ext, Amanda	State	changed state to Approved at 9:59 am	v16
Lead Approval	 TILBEE-ext, Amanda	State	gave <i>POD Lead Review</i> approval at 9:59 am	
	 MARGALLO-ext, Oyie	State	assigned approval <i>POD Lead Review</i> to  TILBEE-ext, Amanda at 8:49 am	
Aug 05, 2025				
	 MCARTHUR-ext, Richard	State	changed expiry date to '12 Aug, 2025 12:20 pm' at 12:20 pm	
		State	changed state to Lead Approval at 12:20 pm	v16