

ERP-1498 System Interface - PartSourceMake.tab interface to Maestro

Status	Approved
Owner	BROWN-ext, Kevin
Stakeholders	NARAHARI-ext, Bhargavi GARG-ext, Praful
Jira Request ID	 ERP-1213 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	 ERP-1498 - Jira project doesn't exist or you don't have permission to view it.

High- Level Specification

Implementing System	Kinaxis Maestro
Invoked by/Invokes	 ERP-1487 - Jira project doesn't exist or you don't have permission to view it.
Business Process Reference	04.04.06.01. Data provisioning ERP to Maestro

Functional Overview

The **PartSource** table defines the sources of supply for a Part. When creating planned orders, a PartSource is selected to determine what type of order, supplier, lead times etc. Each Part should have at least one effective Part Source for RR to plan the Part.

- Part related fields – Procurement type of Make, Lead Times, Lot Sizes etc..

Scope and Objectives

The scope of this interface is between Global Integration Suite and Maestro. This document includes details of the PartSourceMake.tab object.

The objective is to populate the PartSourceMake and it's referenced tables based on the file provided by Global Integration Suite.

Process Flow Diagram



Source page access restriction: Click the link below to check if the page is accessible.

[/display/ER/System+Interface+-+Reference+Specification+for+Maestro](#)

Step	Description
1	Global Integration Suite transfers transformed Composites / Rest of World data from S/4, and performs some formatting, and sends the data to Maestro.
3	Transferred files will be sent to Maestro's Client SFTP server. This sits outside of the Maestro firewall and is accessible by client using a user id/ password. Files are transferred from this component to the Planning Server SFTP by a Kinaxis automatic process once the trigger file has been placed (see below)
4	Files are moved to this SFTP server automatically, where they await loading into Maestro.
5	Maestro uses the configured DSM (Data Sources and Mapping) setup to load the data into the PartSource table, with the load initiated either manually or through a scheduled system task.
6	The Data Tables which store information in Maestro

Assumptions

- Data will only come from Global Integration Suite into the Global Data Source, set up in Maestro.

Dependencies

- (SFTP) SFTP credentials needs to be set up, along with the file transfer mechanism.
- Integration suites should provide data in the format described by the Data Sources and Mapping section of this document.

Security, Integrity and Controls

See [Application Architecture Kinaxis Maestro](#) for security requirements for SFTP/REST based authentication and security.

Configuration Requirements

The Data Sources and Mapping for this interface should be configured once, according to the structure in the Data Structure section below.

The Data Model needs to be configured with the Syway-specific fields shown in the Data Model Custom Fields section below.

Special Requirements

None

Design Rationale

The base of this design has been taken from the existing Maestro implementation, as designed during the Advanced Planning System (APS) Project.

A fit-gap analysis was undertaken within Syway, and changes were identified which have been incorporated into the Syway spec as shown.

API Use

The data object provided by either Integration Suite will be **consumed** by Maestro.

For more information see the [Data Integration Document](#).

Data Structure

The following Maestro fields will be populated by the file provided by Integration Suite:

Column Number	Field Name	Technical Field Name	Data Type	Key	Field Type	Autocreate	Description
0	AbsolutePrePlanLimit	AbsolutePrePlanLimit	String	N	FixedValue	Default	Absolute limit used to restrict pre-planned orders for this source.
0	OrderPolicy	OrderPolicy.Value	String	N	FixedValue	Default	Order policy governing how supply is generated for this part source.

0	PrePlanLimit	PrePlanLimit	String	N	FixedValue	Default	Pre-planning limit used to control how far in advance planning can create supply.
0	ShipCalendar	Source.ShipCalendar.Value	String	N	FixedValue	Default	Shipping calendar used to determine valid shipment dates for this source.
1	BaseKey	BaseKey	String	Y	ExtractField	Default	Unique technical key identifying the part source record.
2	PartName	Part.Name	String	Y	ExtractField	Default	Part identifier for which this source definition applies.
2	ProductionVersionPartName	SYE::ProductionVersion.PartReference.Name	String	N	ExtractField	Default	Part reference associated with the production version from SAP.
2	TransferPartName	TransferPart.Name	String	N	ExtractField	Default	Transfer part used when supply is created via transfer logic.
3	PartSite	Part.Site.Value	String	Y	ExtractField	Default	Site / plant where the part is planned and sourced.
3	RoutingSite	Routing.Site.Value	String	N	ExtractField	Default	Site where the routing associated with this source is defined.
3	DestinationSite	Source.DestinationSite.Value	String	Y	ExtractField	Y	Destination site where the sourced supply is delivered.
3	SupplierId	Source.Supplier.Id	String	Y	ExtractField	Y	Supplier identifier associated with this part source.
3	SupplierSite	Source.Supplier.Site.Value	String	Y	ExtractField	Default	Supplier site associated with the sourcing definition.
3	ProductionVersionPartSite	SYE::ProductionVersion.PartReference.Site.Value	String	N	ExtractField	Default	Site associated with the production version part reference.
3	TransferPartSite	TransferPart.Site.Value	String	N	ExtractField	Default	Site associated with the transfer part.
4	SourceId	Source.ID	String	Y	ExtractField	Y	Unique identifier for the source record.
4	ProductionVersionId	SYE::ProductionVersion.Id	String	N	ExtractField	Y	Production Version identifier from SAP defining how the item is produced.
5	ProductionVersionDescription	SYE::ProductionVersion.Description	String	N	ExtractField	Default	Descriptive text for the production version.
6	BOMAlternate	BOMAlternate.Value	String	N	ExtractField	Y	Alternate Bill of Material associated with this part source.
7	RoutingId	Routing.Id	String	N	ExtractField	Y	Routing identifier used for production planning.
8	MaximumQty	MaximumQty	Quantity	N	ExtractField	Default	Maximum quantity allowed per order or planning bucket.
9	MultipleQty	MultipleQty	Quantity	N	ExtractField	Default	Order multiple quantity constraint for this source.
10	MinimumQty	MinimumQty	Quantity	N	ExtractField	Default	Minimum quantity allowed when creating supply.
11	UnitCost	UnitCost	Money	N	ExtractField	Default	Cost per unit for supply generated from this source.
12	MaterialCost	MaterialCost	Money	N	ExtractField	Default	Material cost component associated with this source.
13	LaborCost	LaborCost	Money	N	ExtractField	Default	Labor cost component associated with production for this source.
14	OverheadCost	OverheadCost	Money	N	ExtractField	Default	Overhead cost component associated with this source.
15	FixedLeadTime	FixedLeadTime	Quantity	N	ExtractField	Default	Fixed lead time used in planning calculations for this source.
16	PlanningTimeFence	PlanningTimeFence	Quantity	N	ExtractField	Default	Planning time fence restricting changes to near-term supply.
16	PTF	SYE::PTF	Quantity	N	ExtractField	Default	Custom Planning Time Fence field used for comparison against Maestro PTF and adjustable directly in the system.
17	EffectiveInDate	EffectiveInDate	Date	N	ExtractField	Default	Date from which this part source becomes effective.
18	EffectiveOutDate	EffectiveOutDate	Date	N	ExtractField	Default	Date after which this part source is no longer valid.
19	Priority	Priority	Quantity	N	ExtractField	Default	Priority used to rank this source when multiple sourcing options exist.
21	LeadTimeUnit	Source.LeadTimeUnit.Value	String	N	ExtractField	Default	Unit of measure used for lead time (for example, days or hours).
21	ERPTType	SYE::ERP_Type.Value	String	N	ExtractField	Default	Internal-use field preserving the original source type from external ERP systems.
22	Type	Type.Value	String	N	ExtractField	Default	Source type classification used internally for planning logic.
23	DockToStockLeadTime	DockToStockLeadTime	Quantity	N	ExtractField	Default	Lead time required from dock receipt to stock availability.

24	SupplierUOM	SupplierUOM.Value	String	N	ExtractField	Default	Unit of measure used by the supplier for ordering and delivery.
----	-------------	-------------------	--------	---	--------------	---------	---

File Formats

See *File Formats - SFTP* section in the [Data Integration Document](#).

Data Model PartSourceMake table settings:

Allow Data update to:			Currency	
Insert, Modify and Delete records	Insert and Modify records only	Allow automatic record creation	Determined by Maestro	Expression
Y	-	N	Y	-

Data Model PartSourceMake custom fields:

Field name	Description	Data type	Key
ProductionVersionId	Production Version identifier from SAP defining how the item is produced.	String	N
ProductionVersionDescription	Descriptive text for the production version.	String	N
PTF	Custom Planning Time Fence field used for comparison against Maestro PTF and adjustable directly in the system.	Quantity	N

Processing Logic

See *Processing Logic - SFTP* section in the [Data Integration Document](#).

Delta or Full Load Requirements

The preference is to do a full load.

For more information on the difference between Full and Delta loads, see the *Full Loads and Delta Loads - SFTP* section in the [Data Integration Document](#).

Interface Alert & Monitoring

See the *Interface Alert & Monitoring - SFTP* section in the [Data Integration Document](#),

Language Requirements

None

User Interface Requirements

Not required.

Sequencing

Reference tables to support PartSourceMake table data have to be either loaded manually before loading the PartSourceMake table or at the same time as the PartSourceMake table is loaded or set to be created automatically in data model or in DSM.

Below tables need to be taken into account before OnHand table data load:

Table	SyWay configuration
BOMAlternate	Set to allow automatic record creation

Routing	Set to allow automatic record creation
Part	To be loaded before or with
PartSourceType	Control Table
OrderPolicy	Set to allow automatic record creation

Volumetrics

Current APS Volume of PartSourceMake records is 47000.

This value is expected to grow by 1-2% per year.

Performance Consideration

N/A

Error Handling

See Interface Alert & Monitoring section.

Testing

How to Test

Testing of the interface consists of executing the data load into Maestro and validating the results using standard monitoring and validation tools. After each load, the **Data Import and Update** log is reviewed to confirm successful execution and to identify any errors or warnings generated during the load process.

Loaded data is then validated using a **Data Validation** workbook to ensure data completeness and correctness. Validation checks include confirming that required fields are populated, values are displayed in the correct format, and that data quality issues such as blank fields, incorrect quantities, or zero or invalid unit costs are not present. Additional checks may be performed to ensure consistency across key attributes such as part, location, and quantity.

Any errors or data issues identified during testing are documented in the agreed issue tracking mechanism (for example, in Jira or an action log). Most common error types are duplicate errors, missing references, junk values in input fields.

Duplicate errors need further investigation, in case valid data is flagged as duplicate by Maestro during data load and key field combinations have to be looked into for data uniqueness.

Missing references are to be resolved by either providing the missing data that is required to support the file upload (this could be in the form of a file or Maestro settings to allow for the data to be created automatically) or removing the references from the file.

Required corrections are implemented in the middleware (Integration Suite), and the data is reloaded. Validation steps are repeated until no errors are present (or reasons are fully understood).

Test Conditions and Expected Results

1	Data Load Successful	The Data in the data file matches the data in the Maestro table, and there are no errors.
2	Data File contains 0 records	The Data Update should fail with a status of Pending.
3	Data File contains invalid references (or other error)	The Data Update should Fail, the invalid references should be visible in the error log and the records with the error are not loaded into Maestro, and an alert is sent to the Admin team <Or whatever action is needed>
4	Data file contains duplicates	The PartSourceMake.tab file must be checked further for data uniqueness with respect to the key fields, in case data is available in file but not in Maestro

Test Considerations/Dependencies

Dependent files should already be loaded into Maestro for these tests to complete. See Sequencing section above.

Other Information

Development Details

Package

Package Name	Parent Package

Other Development Objects

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

Appendix

See also

File	Modified
No files shared here yet.	

Change log

Version	Published	Changed By	Comment
CURRENT (v. 6)	Apr 02, 2026 14:23	KAVLEKAR-ext, Nihaal	Updated the Delta or Full load Requirement section
v. 5	Mar 19, 2026 14:23	KAVLEKAR-ext, Nihaal	
v. 4	Mar 12, 2026 09:37	KAVLEKAR-ext, Nihaal	
v. 3	Mar 03, 2026 17:53	MOHAMOUD-ext, Ahmed	
v. 2	Feb 11, 2026 15:35	MOHAMOUD-ext, Ahmed	
v. 1	Feb 11, 2026 15:35	MOHAMOUD-ext, Ahmed	

Workflow history

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

Apr 24, 2026	Actor	Type	Activity	Version
--------------	-------	------	----------	---------

Approved	 NARAHARI-ext, Bhargavi	State	changed state to Approved at 6:28 pm	v6
Lead Approval	 NARAHARI-ext, Bhargavi	State	gave <i>POD Lead Review</i> approval at 6:28 pm	
Apr 07, 2026				
	 JAIN-ext, Dhiraj	State	changed expiry date to '14 Apr, 2026 08:40 am' at 8:40 am	
		State	changed state to Lead Approval at 8:40 am	v6
Tech Review	 JAIN-ext, Dhiraj	State	gave <i>Tech Review</i> approval at 8:40 am	
From Mar 03, 2026 to Apr 02, 2026				
	MOHAMOUD-ext, Ahmed and KAVLEKA R-ext, Nihaal	Edit	multiple updates from  MOHAMOUD-ext, Ahmed and  K AVLEKAR-ext, Nihaal	