



ERP-1664 System Interface - PartSourceTransfer.tab interface to Maestro

Status	Approved
Owner	BROWN-ext, Kevin
Stakeholders	NARAHARI-ext, Bhargavi GARG-ext, Praful
Jira Request ID	 ERP-1214 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	 ERP-1664 - 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-1651 - 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.

PartSourceTransfer records are loaded into the Part Source table and identified by the Type field 'Transfer, the records consists of:

- Special Procurement Key (SAP)
- Source List
- Internal stock transfer parts

Scope and Objectives

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

The objective is to populate the PartSourceTransfer 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	Quantity	N	FixedValue	Default	Absolute limit restricting pre-planned transfer supply generation.

0	OrderPolicy	OrderPolicy.Value	Ref String	N	FixedValue	Default	Order policy controlling how transfer supply is generated.
0	PrePlanLimit	PrePlanLimit	Quantity	N	FixedValue	Default	Pre-planning restriction applied to transfer sourcing logic.
1	BaseKey	BaseKey	String	Y	ExtractField	Default	Unique technical key identifying the PartSourceTransfer record.
2	PartName	Part.Name	String	Y	ExtractField	Default	Material / part code being transferred.
2	TransferPartName	TransferPart.Name	String	N	ExtractField	Default	Transfer-specific part reference used for inter-site sourcing logic.
3	PartSite	Part.Site.Value	Ref String	Y	ExtractField	Default	Origin site where the part is planned.
3	RoutingSite	Routing.Site.Value	Ref String	N	ExtractField	Default	Site where the routing for transfer-related processing is defined.
3	DestinationSite	Source.DestinationSite.Value	Ref String	Y	ExtractField	Y	Destination site receiving the transferred material.
4	SourceId	Source.ID	String	Y	ExtractField	Y	Unique identifier of the transfer source definition.
5	SupplierId	Source.Supplier.Id	String	Y	ExtractField	Y	Supplier identifier if transfer is externally facilitated or subcontracted.
5	SupplierSite	Source.Supplier.Site.Value	Ref String	Y	ExtractField	Default	Supplier site associated with the transfer source.
5	TransferPartSite	TransferPart.Site.Value	Ref String	N	ExtractField	Default	Site associated with the transfer-specific part reference.
6	MaximumQty	MaximumQty	Quantity	N	ExtractField	Default	Maximum transfer quantity allowed per order.
7	MultipleQty	MultipleQty	Quantity	N	ExtractField	Default	Required transfer quantity multiple.
8	MinimumQty	MinimumQty	Quantity	N	ExtractField	Default	Minimum transfer quantity constraint.
9	UnitCost	UnitCost	Money	N	ExtractField	Default	Cost per unit for transferring material between sites.
10	TransitTime	Source.TransitTime	Quantity	N	ExtractField	Default	Transit time required to move material from origin to destination.
11	PlanningTimeFence	PlanningTimeFence	Quantity	N	ExtractField	Default	Planning time fence restricting near-term changes to transfer supply.
11	PTF	SYE::PTF	Quantity	N	ExtractField	Default	Custom Planning Time Fence field used for Maestro comparison logic.
12	DockToStockLeadTime	DockToStockLeadTime	Quantity	N	ExtractField	Default	Lead time from arrival at destination dock to stock availability.
13	EffectiveInDate	EffectiveInDate	Date	N	ExtractField	Default	Date from which the transfer source becomes valid.
14	EffectiveOutDate	EffectiveOutDate	Date	N	ExtractField	Default	Date after which the transfer source is no longer valid.
15	Priority	Priority	Quantity	N	ExtractField	Default	Priority ranking used when multiple transfer sources exist.
16	ShipCalendar	Source.ShipCalendar.Value	Ref String	N	ExtractField	Default	Calendar controlling valid shipment dates from origin site.
17	LeadTimeUnit	Source.LeadTimeUnit.Value	Ref String	N	ExtractField	Default	Unit of measure used for interpreting lead time values.
18	TransitCalendar	Source.TransitCalendar.Value	Ref String	N	ExtractField	Default	Calendar used to calculate valid transit days between sites.
19	ERPTYPE	SYE::ERP_Type.Value	Ref String	N	ExtractField	Default	Internal-use field preserving original ERP source classification.
19	Type	Type.Value	Ref String	N	ExtractField	Default	Transfer source type classification used for planning logic.
21	SupplierUOM	SupplierUOM.Value	Ref String	N	ExtractField	Y	Unit of measure used for supplier/transfer quantity interpretation.
22	SupplierCurrency	SYE::SupplierCurrency.Value	Ref String	N	ExtractField	Default	Currency associated with transfer cost calculations.
23	RoutingId	Routing.Id	String	N	ExtractField	Y	Routing identifier associated with transfer-related processing steps.
23	TransportationMode	Source.TransportationMode.Value	Ref String	N	ExtractField	Y	Mode of transportation used for the transfer (e.g., truck, sea, air).
24	PurchaseOrganization	SYE::PurchaseOrganization	String	N	ExtractField	Default	Purchase Organisation from SAP

File Formats

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

Data Model PartSourceTransfer table settings:

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

Data Model PartSourceTransfer custom fields:

Field name	Description	Data type	Key
PurchaseOrganization	Purchase Organization from SAP	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 PartSourceTransfer table data have to be either loaded manually before loading thePartSourceTransfer table or at the same time as the PartSourceTransfer table is loaded or set to be created automatically in data model or in DSM.

Below tables need to be taken into account before Part 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 ofPartSourceTransfer records is 18173.

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)	<p>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></p> <p>Fields for PartSourceBuy.tab which should be checked for invalid references are shown in the Data Structure table above as "Ref String" and are:</p> <table border="1"><tr><td>OrderPolicy.Value</td></tr><tr><td>Source.ShipCalendar.Value</td></tr><tr><td>Source.Supplier.Site.Value</td></tr><tr><td>Part.Site.Value</td></tr><tr><td>Source.DestinationSite.Value</td></tr><tr><td>TransferPart.Site.Value</td></tr><tr><td>SupplierUOM.Value</td></tr><tr><td>Source.LeadTimeUnit.Value</td></tr><tr><td>ERP_Type.Value</td></tr><tr><td>Type.Value</td></tr><tr><td>Source.TransitCalendar.Value</td></tr><tr><td>BOMAlternate.Value</td></tr></table>	OrderPolicy.Value	Source.ShipCalendar.Value	Source.Supplier.Site.Value	Part.Site.Value	Source.DestinationSite.Value	TransferPart.Site.Value	SupplierUOM.Value	Source.LeadTimeUnit.Value	ERP_Type.Value	Type.Value	Source.TransitCalendar.Value	BOMAlternate.Value
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Source.LeadTimeUnit.Value														
ERP_Type.Value														
Type.Value														
Source.TransitCalendar.Value														
BOMAlternate.Value														

4	Data file contains duplicates	The PartSourceTransfer.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
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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. 5)	Apr 02, 2026 14:48	KAVLEKAR-ext, Nihaal	
v. 4	Mar 19, 2026 14:31	KAVLEKAR-ext, Nihaal	Updated the Assumptions section
v. 3	Mar 16, 2026 11:14	KAVLEKAR-ext, Nihaal	
v. 2	Mar 12, 2026 11:11	KAVLEKAR-ext, Nihaal	
v. 1	Feb 12, 2026 01:35	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
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Approved	 NARAHARI-ext, Bhargavi	State	changed state to Approved at 6:30 pm	v5
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Lead Approval	 NARAHARI-ext, Bhargavi	State	gave <i>POD Lead Review</i> approval at 6:30 pm	
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Apr 07, 2026

	 JAIN-ext, Dhiraj	State	changed expiry date to '14 Apr, 2026 09:41 am' at 9:41 am	
		State	changed state to Lead Approval at 9:41 am	v5

Tech Review	 JAIN-ext, Dhiraj	State	gave <i>Tech Review</i> approval at 9:41 am	
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From Mar 16, 2026 to Apr 02, 2026

	 KAVLEKAR-ext, Nihaal	Edit	updated the page at 11:14 am	
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