

# CNV-3016 Business Partners - Transporters/Forwarders

Status	Approved
Owner	
Stakeholders	
Jira Request ID	
Jira Development ID	

## High- Level Specification

Implementing System	
Invoked by/Invokes	
Business Process Reference	

## Functional Overview

The **OnHand** table stores inventory quantities and associated attributes for a part at a specific location within a warehouse. It represents the inventory position used by Maestro for planning, allocation, and pegging activities and is synonymous with inventory.

When on-hand inventory is allocated to demands for pegging, higher-priority demands are protected. If no priority is defined, on-hand inventory for a part is consumed based on the following attributes, in order:

- Expiry date (earliest first)
- Date (earliest first)
- Unit cost (lowest cost first)
- Quantity (smallest quantity first)
- Location identifier and warehouse

## Scope and Objectives

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

The objective is to populate the OnHand 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	Comment
1	Global Integration Suite transfers transformed Composites / Rest of World data from S/4, and performs some formatting, and sends the data to Maestro.	<Integration Spec Link>
2	China Integration Suite transfers transformed China data from S/4, and performs some formatting, and sends the data to Maestro.	<Integration Spec Link>

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 OnHand table, with the load initiated either manually or through a scheduled system task.	
6	The Data Tables which store information in Maestro	

## Assumptions

See Assumptions section in [System Interface - Reference Specification for Maestro](#).

## Dependencies

See Dependencies section in [System Interface - Reference Specification for Maestro](#).

## Security, Integrity and Controls

See [Application Architecture - 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.

## 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	Auto create	Description
0	BaseKey	BaseKey.Id	String	N	NULL	Default	Optional field that can be used as a key field. In SyWay, this is set to Null.
0	BatchStatus	Batch.Status.Value	Ref String	N	Fixed Value	Y	A unique identifier that describes the status of a batch. Typically used to help determine if a batch is usable or not.  For SyWay, this is set to Null.
1	BatchPart	Batch.Part.Name	Ref String	N	Extra ctField	Default	The part that belongs to this batch record.
1	PartName	Part.Name	Ref String	N	Extra ctField	Default	The part number of the inventory. Referenced Table: Part
2	BatchPart Site	Batch.Part.Site.Value	Ref String	N	Extra ctField	Default	The site associated with this part.

2	LocationWarehouse	Location.Warehouse.Site.Value	Ref String	N	Extra ctField	Y	The warehouse where this location is.
2	Site	Part.Site.Value	Ref String	N	Extra ctField	Default	The site of the part number of the inventory.
3	Type	Type.Value	Ref String	N	Extra ctField	N	A value that determines whether the stock or inventory is considered in netting. This field references the OnHandType table. Valid values are 'Net' or 'NoNet'. Referenced Table: OnHandType
4	Location	Location.Id	Ref String	N	Extra ctField	Default	The stocking or bin location where the inventory is located. Referenced Table: Location
5	Warehouse Id	Location.Warehouse.Id	Ref String	N	Extra ctField	Default	An Id code for the warehouse
6	Date	Date	Date	N	Extra ctField	Default	Indicates the date at which inventory was received.
7	Quantity	Quantity	Quantity	N	Extra ctField	Default	The amount in stock.
7	TotalQuantity	TotalQuantity	Quantity	N	Extra ctField	Default	Saving the total quantity from SAP before the data automations for reservations, Consignment, and Tolling
8	Expiry Date	ExpiryDate	Date	N	Extra ctField	Default	The date on which this inventory expires (is no longer usable).
9	BatchID	Batch.Id	CString	N	Extra ctField	Y	The identifier for this batch record.
10	Info	Info	CString	N	Extra ctField	Default	Information coming from SAP

## File Formats

See Data Structure - File Formats section in [System Interface - Reference Specification for Maestro](#).

## Data Model OnHand 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 OnHand custom fields:

Field name	Description	Data type	Key
ReservedQuantity	Used internally in Maestro. Supports the reservation solution by saving the quantity reserved for customers.	Quantity	
TotalQuantity	Saving the total quantity from SAP before the data automations for reservations, Consignment, and Tolling	Quantity	
Info	Information coming from SAP	String	
HoldType	Used to support the reservations for customers or production orders	Reference	
	<b>Referenced table: HoldType</b>		

## Calculation and Validation

Not required.

## eDocument mapping

Not required.

## Processing Logic

See Processing Logic section in [System Interface - Reference Specification for Maestro](#).

Tolerance setting should be set to

## Delta or Full Load Requirements

This file will be a Full Load, sent 3 times a day, so the file has been loaded at the beginning of day for each global region. If OnHand is omitted from any of these loads, the OnHand data within Maestro will be unchanged.

For more information see Delta or Full Load Requirements section in [System Interface - Reference Specification for Maestro](#).

## Interface Alert & Monitoring

See Interface Alert & Monitoring section in [System Interface - Reference Specification for Maestro](#).

## Language Requirements

None

## User Interface Requirements

Not required.

## Sequencing

Reference tables to support OnHand table data have to be either loaded manually before loading the OnHand table or at the same time as the OnHand 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
Batch	Set to allow automatic record creation
Location	Set to allow automatic record creation
Model	Not needed in SyWay. Picks Maestro default value - None
Pool	Not needed in SyWay. Picks Maestro default value - Unpooled
HoldType	Set to allow automatic record creation

## Volumetrics

Current APS Volume of OnHand records is 110,000. Because APS makes up approximately 60% of Syway projected records, an expected estimate for Syway is therefore 150,000

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

The Kinaxis Guardrail document indicates that no more than **xxx** records should be stored in the OnHand table.

## Performance Consideration

SFTP - None (aside from the Volumetric considerations above)

## Error Handling

See Interface Alert & Monitoring section.

## Testing

### How to Test

See Testing - How to Test section in [System Interface - Reference Specification for Maestro](#).

## Test Conditions and Expected Results

See Testing - Test Conditions and Expected Results section in [System Interface - Reference Specification for 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
<b>CURRENT (v. 22)</b>	<b>Nov 05, 2025 15:37</b>	<b>OMER-ext, Mohammed</b>	
v. 21	Nov 03, 2025 16:40	OMER-ext, Mohammed	
v. 20	Nov 03, 2025 15:37	OMER-ext, Mohammed	
v. 19	Nov 03, 2025 11:33	OMER-ext, Mohammed	
v. 18	Nov 03, 2025 07:08	OMER-ext, Mohammed	
v. 17	Oct 31, 2025 17:11	OMER-ext, Mohammed	
v. 16	Oct 30, 2025 17:02	OMER-ext, Mohammed	

v. 15	Oct 30, 2025 16:42	<b>OMER-ext, Mohammed</b>
v. 14	Oct 30, 2025 15:17	<b>OMER-ext, Mohammed</b>
v. 13	Oct 29, 2025 15:53	<b>OMER-ext, Mohammed</b>

[Go to Page History](#)

## Workflow history

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

Jan 05, 2026	Actor	Type	Activity	Version
Approved	 <b>TAN-ext, Charmaine</b>	State	changed state to <b>Approved</b> at 12:18 pm (State override)  <i>[PMO Comments] Conversion Spec completed as per CS register and functional review completed</i>	v22
<b>Nov 05, 2025</b>				
Peer Review	 <b>OMER-ext, Mohammed</b>	Edit	updated the page at 3:37 pm	
<b>Nov 04, 2025</b>				
	 <b>HASSAN-ext, Shamir</b>	State	gave <i>Peer Review</i> approval at 11:25 am	
<b>Nov 03, 2025</b>				
	 <b>OMER-ext, Mohammed</b>	Edit	updated the page at 4:40 pm	
		State	assigned approval <i>Peer Review</i> to  <b>HASSAN-ext, Shamir</b> at 3:53 pm	
		State	assigned approval <i>Peer Review</i> to  <b>VAN NIEKERK-ext, ivan</b> at 3:53 pm	
		State	changed expiry date to '07 Nov, 2025 03:52 pm' at 3:52 pm	
		State	changed state to <b>Peer Review</b> at 3:52 pm	v21
			<i>Please help to peer review.</i>	
<b>From Jun 26, 2025 to Nov 03, 2025</b>				
	 <b>OMER-ext, Mohammed</b>	Edit	updated the page at 4:32 pm	