ERP-1629 System Interface - HistoricalDemandInvoiced.tab interface to Maestro

Status	Approved
Owner	BROWN-ext, Kevin
Stakeholders	NARAHARI-ext, Bhargavi GARG-ext, Praful
Jira Request ID	ERP-1164 - Jira project doesn't exist or you don't have permission to view it.
Jira Development ID	ERP-1629 - 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-1622 - 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

This table contains data related to historical actual customer demand (shipments and/or actual demand) for a given period. This table supports Demand Planning and Statistical Forecasting in Maestro, and is needed for statistical forecasting, forecast, disaggregation, and forecast accuracy.

May also contain data related to consumption of inventory by a customer or point of sale data from a customer.

Scope and Objectives

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

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

Process Flow Diagram

draw.io

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

/display/ER/ERP-1667+System+Interface+-+ScheduledReceiptPO.tab+interface+to+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.
2	China Integration Suite transfers transformed China 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 HistoricalDemandActual table, with the load initiated either manually or through a scheduled system task.
6	The Data Tables which store information in Maestro

Assumptions

See OnHand.tab System Interface document for assumptions.

Dependencies

See OnHand.tab System Interface document for dependencies.

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
1	Category	Header.Category.Value	String	Y	ExtractField	N	The demand category associated with this group of historical demands
2	CustomerId	Header.PartCustomer.Customer.Id	String	Y	ExtractField	N	A value that identifies thecustomer.

3	Part	Header.PartCustomer.Part.Name	String	Y	ExtractField	N	Part number or item number.
4	Site	Header.PartCustomer.Part.Site.Value	String	Y	ExtractField	N	List of valid site codes. These include manufacturing/physical and inventory /logical.
4	Order Site	Order.Site.Value	String	N	ExtractField	N	List of valid site codes. These include manufacturing/physical and inventory /logical.
5	Date	Date	Date	Y	ExtractField	Default	The date associated with this historical demand. This is the date on which the record would be considered for use in statistical forecasting, forecast disaggregation, and/or inventory optimization algorithm calculations
6	Customer Group Id	Header.PartCustomer.Customer.CustomerGroup.Id	String	N	ExtractField	N	The group name.
7	Order Id	Order.Id		Y	ExtractField	Default	
8	Line	Line	String	Y	ExtractField	Default	The order line number associated with this record.
9	Quantity	Quantity	Quantity	N	ExtractField	Default	The total quantity of actual demands (shipments, requests, etc.) for the period identified by Date
10	Unit Price	UnitPrice	Money	N	ExtractField	Default	The unit price for the historical demand
11	RawPrice	RawPrice	Money	N	ExtractField	Default	Raw Price stored in local currency

File Formats

See *File Formats - SFTP* section in the Data Integration Document.

Data Model HistoricalDemandActual 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	N/A	N/A

Data Model HistoricalDemandActual custom fields:

Field name	Description	Data type	Key
RawPrice	Used in the MTP solution to import records with different currencies and convert them to EUR.	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 partial load.

This file will contain data for 2 months (current and previous month), while retaining 3 years of history, on a rolling basis, for planning purposes. A Mae stro Scheduled System Task will run each week to remove records over 3 years old.

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

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

Table	**SyWay configuration**
HistoricalDemandOrder	Set to allow automatic record creation
HistoricalDemandHeader	Set to allow automatic record creation
HistoricalDemandCategory	Control table; Auto create not allowed
HistoricalDemandCategoryType	Control table; Auto create not allowed
Part	Auto create not allowed
Customer	Auto create not allowed

Volumetrics

Current APS Volume of HistoricalDemandActual records is 1,043,268. Because APS makes up approximately 60% of Syway projected records, an expected estimate for Syway is therefore 16,69,229.

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

Performance Consideration

Since the initial data load for Historical demand data will be for a 3 year horizon, the performance of the system will have to be monitored.

Error Handling

See Interface Alert & Monitoring section.

Testing

How to Test

See OnHand.tab System Interface document for information on how to test.

There are no HistoricalDemandActual-specific testing requirements.

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> Fields for HistoricalDemandInvoiced.tab which should be checked for invalid references are shown in the Data Structure table above as "Ref String" and are: Header.Category.Value Header.Category.Type.Value Part.Name Part.Site.Value Customer.Id
4	Data file contains duplicates	The HistoricalDemandInvoiced.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. 10)	**Apr 15, 2026 09:45**	**KAVLEKAR-ext, Nihaal**	Updated the Data Structure section
v. 9	Apr 10, 2026 10:56	**KAVLEKAR-ext, Nihaal**	Updated the Data Structure section
v. 8	Apr 02, 2026 14:36	**KAVLEKAR-ext, Nihaal**	Updated the Delta or Full load Requirement section
v. 7	Mar 19, 2026 14:55	**KAVLEKAR-ext, Nihaal**	Updated the Delta or Full load Requirement section
v. 6	Mar 19, 2026 08:57	**KAVLEKAR-ext, Nihaal**	
v. 5	Mar 13, 2026 05:04	**KAVLEKAR-ext, Nihaal**	
v. 4	Mar 12, 2026 11:08	**KAVLEKAR-ext, Nihaal**	
v. 3	Feb 06, 2026 10:36	**KAVLEKAR-ext, Nihaal**	
v. 2	Feb 06, 2026 09:03	**KAVLEKAR-ext, Nihaal**	
v. 1	Feb 06, 2026 07:33	**KAVLEKAR-ext, Nihaal**	

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 6:25 pm	v10
Lead Approval	NARAHARI-ext, Bhargavi	State	gave *POD Lead Review* approval at 6:25 pm	
Apr 20, 2026				
	JAIN-ext, Dhiraj	State	changed expiry date to '27 Apr, 2026 12:23 pm' at 12:23 pm	
		State	changed state to Lead Approval at 12:23 pm	v10
Tech Review of Updates	JAIN-ext, Dhiraj	State	gave *Minor change* approval at 12:23 pm	
Apr 15, 2026				
	KAVLEKAR-ext, Nihaal	Edit	updated the page at 9:45 am *Updated the Data Structure section*	