



ERP-1659 System Interface - CurrencyConversionActual. tab interface to Maestro

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|----------------------------|--|
| 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-1659 - 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-1646 - 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

Contains currency conversion rates, which are available in all scenarios. The latest rate with a conversion date on or before the current date is used to convert values. If a rate is modified, the same modification is present in all scenarios.

This table is a system table that is updated similarly to an input table. Updated rates should be brought in to this table using data updates, which makes the updated rates available in all scenarios. If a new currency is added, you must update the data extracts and integration to include the conversion rates for the new currency, which ensures the currency returns meaningful values. Any conversion rates specified for the base currency are ignored.

The data in this table is updated by performing data updates. However, this table is updated only if the data update provides data for the root scenario. This ensures actual conversion rates are not accidentally added. Data updates can only add records to this table. If multiple data updates provide a record for a specific date, each of those records are added to the table. If multiple conversion rates are provided for a date, the rate that is used to perform conversions cannot be predicted, which can result in incorrect results. When you provide data for this table, you should ensure only one rate is provided for a date.

Scope and Objectives

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

The objective is to populate the CurrencyConversionActual 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 CurrencyConversion 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 |
|---------------|------------|----------------------|------------|-----|--------------|------------|---|
| 1 | Currency | Currency.Value | Ref String | N | ExtractField | Default | Currency code for which the exchange rate is defined (e.g., USD, EUR). |
| 2 | Date | Date | Date | N | ExtractField | Default | Effective date of the exchange rate. Defines the validity date of the rate value. |
| 3 | Rate | Rate | Quantity | N | ExtractField | Default | Exchange rate value applicable for the specified currency and date. |

File Formats

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

Data Model CurrencyConversionActual 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 CurrencyConversionActual custom fields:

There are no custom fields for this table

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

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

| Table | SyWay configuration |
|----------|--|
| Currency | This is loaded manually prior to the data load |

Volumetrics

Current APS Volume of CurrencyConversionActual records is 2800.

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 | Duplicates for CurrencyConversionActual.tab are permitted technically as there are no keys, so no duplicate errors should exist, but a manual comparison test should be performed to ensure that no 2 rows are the same. |

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 02, 2026 14:40 | KAVLEKAR-ext, Nihaal | Updated the Delta or Full load Requirement section |
| v. 9 | Mar 17, 2026 14:06 | KAVLEKAR-ext, Nihaal | |
| v. 8 | Mar 17, 2026 13:49 | KAVLEKAR-ext, Nihaal | |
| v. 7 | Mar 16, 2026 14:18 | KAVLEKAR-ext, Nihaal | |
| v. 6 | Mar 13, 2026 06:18 | KAVLEKAR-ext, Nihaal | |
| v. 5 | Feb 18, 2026 15:19 | MOHAMOUD-ext, Ahmed | |
| v. 4 | Feb 11, 2026 19:10 | MOHAMOUD-ext, Ahmed | |
| v. 3 | Feb 11, 2026 17:39 | MOHAMOUD-ext, Ahmed | |
| v. 2 | Feb 11, 2026 17:39 | MOHAMOUD-ext, Ahmed | |
| v. 1 | Feb 11, 2026 17:34 | 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 10, 2026 | Actor | Type | Activity | Version |
|--------------|-------|------|----------|---------|
|--------------|-------|------|----------|---------|

| | | | | |
|--|--|-------|---|-----|
| Approved |  NARAHARI-ext, Bhargavi | State | changed state to Approved at 5:39 pm | v10 |
| Lead Approval |  NARAHARI-ext, Bhargavi | State | gave <i>POD Lead Review</i> approval at 5:39 pm | |
| Apr 07, 2026 | | | | |
| |  JAIN-ext, Dhiraj | State | changed expiry date to '14 Apr, 2026 09:36 am' at 9:36 am | |
| | | State | changed state to Lead Approval at 9:36 am | v10 |
| Tech Review |  JAIN-ext, Dhiraj | State | gave <i>Tech Review</i> approval at 9:36 am | |
| From Mar 13, 2026 to Apr 02, 2026 | | | | |
| |  KAVLEKAR-ext, Nihaal | Edit | updated the page at 6:18 am | |