



Effect Import – Antura Integration Standard

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Background

Since 2017, Antura has been offering its customers to import effects into Antura using Antura Integration Standard. The Integration Standard are a kind of add-on products that are continuously updated, in a similar way to Antura, where customers who license them can choose when they want to upgrade to a new version. Unlike custom integrations, the Antura Integration Standard are offered to the entire Antura customer base and thus also driven forward by the same.

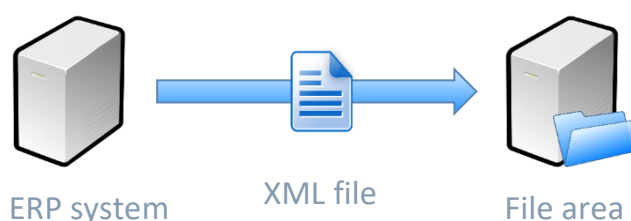
Antura offers one Integration Standard per effect perspective; Budget, Actual and Forecast.

Technical description

Data is transferred from the customer's ERP system to Antura via XML files. The files have a fixed format that is described in this document. The file is delivered to a file area which Antura monitors. Antura will read the file(s) that is available each day. The file must be uploaded to the file area before a specific time each day to be imported. The time is configurable in the configuration file. By default, the import starts at 01:00 every night.

Files can either be uploaded manually or automatically to the file area. Multiple files per day is supported but it is usually unnecessary as the integrations include a step to clear previously imported effects for the current effect perspective (see more under the section Deletion Strategy).

In the case where Antura is hosted by Antura, an FTPS (or SFTP) account is set up to enable customer access to the file area.



The customer decides how extensive the export file should be, i.e. how far back in time that effects should be imported. However, Antura does not recommend that the file contain more than three historical periods (three months).

File format

The input to the imports is read from **XML files**. Antura provides the customer with XML examples and associated XSD files. XSD customization is not allowed.

The names of the files do not matter; as long as the files follow the current XSD for integration, and use "UTF-8" as character encoding.

The file should be delivered to Antura according to the following example (.xml):

```

<?xml version="1.0" encoding="UTF-8"?>
<effectImportFile>
  <effectItem>
    <projectNumber>12345</projectNumber>
    <taskReferenceKey/>
    <taskReferenceValue/>
    <effectTypeReference>ABCDE</effectTypeReference>
    <effectTypeName>ABCDE</effectTypeName>
    <businessAreaReference>ABCDE</businessAreaReference>
    <businessAreaName>ABCDE</businessAreaName>
    <name>Effect item name</name>
    <url>http://url.to.invoice/</url>
    <amount>2075.75</amount>
    <date>2020-05-01</date>
    <metadata>
      <metadataRow>
        <heading>Vendor name</heading>
        <value>Huawei</value>
      </metadataRow>
      <metadataRow>
        <heading>Purchase order</heading>
        <value>123456cvbd</value>
      </metadataRow>
      <metadataRow>
        <heading>Voucher number</heading>
        <value>5465433</value>
      </metadataRow>
    </metadata>
  </effectItem>
</effectImportFile>

```

Comment: Each effect item should start with <effectItem> and end with </effectItem>.

Mapping fields in the file

See attachment “1”

Project matching

Effects are linked to projects through one of the following matches (set as configuration) when imported:

Project number (standard)

Matching is done against the project number specified in the project number field in Antura. Matching is not case-sensitive (makes no difference between upper- and lower-case letters).

Multiple project numbers

Corresponding to “Project number (default)” above but with the difference that several project numbers can be specified with semicolon (;) as separator. For example, "87236; 12378; 9872".

Project property

Matching is done against a custom project property.

Task reference

Matching is done against the task reference (*taskReferenceKey* and *taskReferenceValue*) and then uses the project to which that task belongs.

Effects are only imported if the effect can be linked to exactly one project. In case no project is found, or several projects refer to the same project number, the effect is not imported, and an error is reported (see *Error handling* below).

Task matching

Effect items can be added at any level in the WBS tree. This is controlled by the *taskReferenceKey* and *taskReferenceValue* fields. If the fields are left blank for a effect item, the effect item is placed on the project global task.

Metadata (tooltip)

For the imported effects, the user can get a popup (so-called "tooltip") if the user keeps the mouse pointer over the imported effect item in Antura. This tooltip is a table with two columns - the first column is a header and the other contains the information.

Below is an example of metadata that could be displayed in tooltip:

Header	Example data
Verification number	61007891
Verification date	2016-12-14

Format in the xml file

For each row to be shown in the metadata table, there must be a `<metadataRow>` in the xml file as shown below (the example is for the Verification number):

```
<metadata>
  <metadataRow>
    <heading>Verification number</heading>
    <value>12345678</value>
  </metadataRow>
  ...
</metadata>
```

The header is defined by `<heading>` and the data will be displayed as it is in `<value>` in the file, **without further formatting**.

In other words, as metadata it is possible to send optional headings and values in the xml file, these fields are not linked to other values in Antura.

URL

The URL link goes directly to a page on another server, normally directly to a pdf in the ERP system. The user who clicks on the link in Antura needs access to the page that is linked.

Deletion strategies

Before the importing of a file begins, previously imported effects are deleted within the same perspective based on one of the following deletion strategies (manually entered effects are not affected). The deletion is done to include changes that have occurred for previously imported effects. Therefore, the file must contain all transactions from the earliest date in the file to the current date for the perspective to be complete.

From the earliest date in the file (default)

The deletion is done from the earliest date in the import file for all projects.

NOTE! The deletion is done for all projects in Antura, not just the projects in the new file.

From the earliest date per project (project number) in the file

The deletion is done from the earliest date in the import file per project. E.g. date X for project Y, date Z for project W, etc.

Matching on project numbers is not case sensitive (does not make any difference between upper- and lower-case letters).

From the earliest date per task property

The deletion is done from the earliest date in the import file per task property. The task property value needs to be unique in Antura. Preferably used in combination with the project matching logic *task matching*.

From a specific date in the configuration file

The deletion is done from the date specified in the integration configuration file (regardless of content in each import file).

NOTE! Thus, deletion is done from the same date before importing each file.

No deletion

No deletion is performed.

Error management

In connection with an import, the following reports can be sent. The reports are sent to one or more predefined email addresses.

Reconciliation report

The reconciliation report shows the total amount imported and the total amount in the file.

Error report

The error report shows project numbers for the projects found in the import file, but which could not be matched with existing projects in Antura.

This report is only sent if errors occur.

Error report for unexpected errors

If an unexpected error occurs during the import, it will be interrupted. The items with actuals that have been imported will remain imported and the items that have not yet been imported will not be read again from the file.

The mail sent contains no details. Troubleshooting takes place with Antura's support.

This mail is sent, for example, if the format of the import file is not correct, if any required fields are missing, or if other unexpected errors occur.

Prerequisites (for internal installation)

For internal installation

- The folder where the import file is to be read must exist and be configured during installation.
- The folder where the import file is to be read must be unique and not used by any other import.
- The system account (application pool user) running Antura must have write permissions in the folder where the import file is added.

Other

- The import file will be archived after the completed import.
- The integration is built against the latest available version of Antura when the development starts.

Attachment 1 - Mapping fields in the file

XML file field	Customer system	Fields in Antura	Example	Mandatory	Comment
projectNumber			ABC123	Yes	
taskReferenceKey				No	
taskReferenceValue				No	
effectTypeReference ¹			Effect	No	
effectTypeName ¹				No	The field can be left empty in the file to enable manual handling of the effect types' names in Antura
businessAreaReference ¹				No	
businessAreaName ¹				No	The field can be left empty in the file to enable manual handling of the bussines areas' names in Antura
name			Transaction description + number	Yes	The name that is shown in Antura for this transaction (effect item). Should be unique for the project and date in question. I.e. the transaction description in the ERP system followed by the transactions unique identification number.
url			http://url	No	A full URL leading to an invoice image for the effect item in question. String: URL
amount			2075,75	Yes	Amount: - Minus sign for negative numbers - No thousand dividers - Dot (.) as decimal point - Two decimals The amount is always in the project currency (in Antura) and will be imported as it is without character conversion, i.e. -100 is imported as - 100 SEK.
date			2020-11-25	Yes	The date on which the transaction (effect item) should be on in Antura; e.g. transaction date or accounting

			date. Date: YYYY-MM-DD alt. YYYY-MM
<metadataRow> <heading> Verification number </heading> <value>12345678</value> </metadataRow>	12345678	No	Possibility to show tool tip for each transaction (effect item) with optional information (not necessary in file)
<metadataRow> <heading> Verification date </heading> <value>2020-11-24 </value> </metadataRow>	2020-11-24	No	Possibility to show tool tip for each transaction (effect item) with optional information (not necessary in file)

Table 1: Mapping fields in the file.

¹ Antura creates effect types and business areas automatically if the references for these cannot be found. The name fields are then used to name the new entities in the system. If the name field does not contain a value, the reference will be used as the initial name. The name can be updated manually in Antura. If the name and reference fields contain values, the names will be updated in the system. This way the names will always be in sync between the two systems

Metadata (tooltip)

Header (Fields in XML-file (<key>))	Customer system	Example (XML-field <value>)	Comment
Verification number	Verification number	Verification number	Possibility to show tool tip for each transaction (effect item) with optional information (not necessary in file)

Attachment 2 - Configuration

Comments	Value
Actual/Budget/Forecast	
One or more email address that will be recipient for reports, separate email with semicolon	
First line in email reports	CUSTOMER NAME [Test]
Send email report even if no errors occurred	True/False
Language for email reports (English: true, Swedish: false)	True/False
Culture to use when parsing decimal amounts ("en-US" for dot decimal separator or "sv-SE" for comma decimal separator)	en-US/sv-SE
Format to use when parsing dates	yyyy-MM-dd
Deletion strategy (PerGlobalMinDateInFile, PerProjectAndMinDate, FromFixedDate or NoDeletion)	
Optional configuration	
Enables the transfer of imported effects between cost perspectives. This will also enable the setting in AP "Create new effect when transferring imported effect"	<TransferImportedEffectsEnabled>true/false</TransferImportedEffectsEnabled> (This is set in application.config)
Encoding for import files (default UTF-8)	
First date of deletion when using deletion strategy "FromFixedDate"	
Avoid duplicate warnings, some cost items are similar but for example verification number can be different. Avoid the warning by activate a flag. Should be added into <SharedSettingsForEffectImports>	<IgnoreImportedItemAlreadyExistsWarning>false</IgnoreImportedItemAlreadyExistsWarning>
Character used to separate multiple project numbers in Antura	