



Project Information Import – Antura Integration Standard

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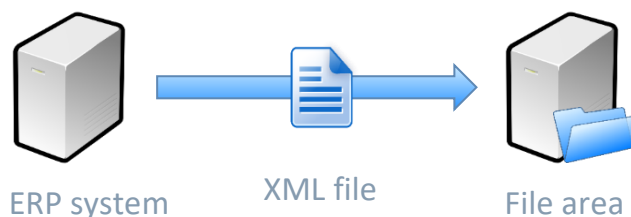
Background

Since 2017, Antura has been offering its customers to import project information 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 Integration Standard are offered to the entire Antura customer base and thus also driven forward by the same.

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.

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.



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"?>
<projectInformationImportFile>
  <projectInformationItems>
    <projectInformationItem>
      <projectNumber>1234</projectNumber>
      <projectName>projectname</projectName>
      <projectProperties>
        <projectProperty>
          <key>ProjectType</key>
          <value>Investment</value>
        </projectProperty>
      </projectProperties>
    </projectInformationItem>
  </projectInformationItems>
</projectInformationImportFile>
```

```

    <key>ProjectStatus</key>
    <value>Active</value>
  </projectProperty>
</projectProperty>
  <key>ProjectAreaList</key>
  <value>IT</value>
  <value>Marketing</value>
  <value>Construction</value>
</projectProperty>
<projectProperty>
  <key>Priority</key>
  <value>1</value>
</projectProperty>
<projectProperty>
  <key>Date</key>
  <value>2017-01-25</value>
</projectProperty>
<projectProperty>
  <key>NumericList</key>
  <value>1</value>
  <value>2.3</value>
  <value>4.56</value>
</projectProperty>
<projectProperty>
  <key>NumericListSingle</key>
  <value>7.89</value>
</projectProperty>
<projectProperty>
  <key>User</key>
  <value>Testuser@company.com</value>
</projectProperty>
</projectProperties>
<customFields>
  <customField>
    <key>MatchingProjectPropertyName</key>
    <value>Property number</value>
  </customField>
  <customField>
    <key>MatchingProjectPropertyValue</key>
    <value>6789</value>
  </customField>
</customFields>
</projectInformationItem>
</projectInformationItems>
</projectInformationImportFile>

```

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

Mapping fields in the file

XML file field	Customer system	Fields in Antura	Example	Mandatory
ProjectNumber			1234	Yes
ProjectName			Projectname	No
ProjectPropertyKey ¹			Priority	No
ProjectPropertyValue ¹			1	No

Table 1: Mapping fields in the file.

¹ ProjectPropertyKey and ProjectPropertyValue are part of their own XML element and there is no limit to how many of these you can create.

Project matching

Project information 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".

Data is imported regardless of project status in Antura, i.e. not started, ongoing, terminated, canceled etc. does not matter.

Project property

Matching is done against a custom project property.

Information is imported for all projects that have the property value in the file. In case no project is found, or several projects refer to the same project number, the information is not imported, and an error is reported (see *Error handling* below).

Rules regarding properties

- In case <projectPropertyValue> is included in the file as an empty XML tag, the integration will overwrite the existing value for the property in Antura.
- Project properties need to be present in the environment. Project properties that are not in Antura will generate errors.

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 number of imported information items from the file as well as the number of updated projects.

Error report

The error report shows which items could not be imported and which project properties could not be found in Antura.

This report is sent only if errors occur.

Error report for unexpected errors

If an unexpected error occurs during the import, it will be interrupted.

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.

Configuration

Kommentar	Värde
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
How to perform project mapping? ProjectNumberCaseInsensitive (default), DelimiterSeparatedMultipleProjectNumbers, OnlyProjectProperty, ProjectNumberAndProjectProperty FromTaskReference	ProjectNumberCaseInsensitive (default)
Optional configuration	
Encoding for import files (default UTF-8)	
How to perform project mapping? ProjectNumberCaseInsensitive (default), DelimiterSeparatedMultipleProjectNumbers, OnlyProjectProperty	
When using OnlyProjectProperty as project mapping strategy, this specifies the key of the customField that holds project property NAME to use for mapping	
When using OnlyProjectProperty as project mapping strategy, this specifies the key of the customField that holds project property VALUE to use for mapping	

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.