



User Information Import – Antura Integration Standard

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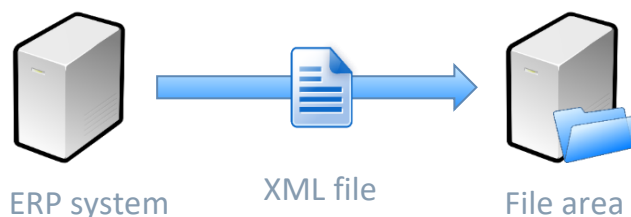
Background

Since 2017, Antura has been offering its customers to import 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 Antura 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"?>
<userInformationImportFile>
  <userInformationItems>
    <userInformationItem>
      <userLogin>CONTOSO\john</userLogin>
      <orgUnitReference>Göteborg/IT</orgUnitReference>
      <role>IT Administrator</role>
```

```

<userMetadata>

  <firstName>John</firstName>

  <lastName>Andersson</lastName>

  <company>Contoso</company>

  <department>GBG IT</department>

  <streetAddress>Kungsgatan 555</streetAddress>

  <address>411 17 Göteborg</address>

  <email>john.andersson@exempel.se</email>

  <telephone></telephone>

  <mobilePhone>555 - 12 34 56</mobilePhone>

  <facsimile></facsimile>

</userMetadata>

<userProperties>

  <userProperty>

    <key>Anställningsnummer</key>

    <value>42</value>

  </userProperty>

  <userProperty>

    <key>Placeringsort</key>

    <value>Mariestad</value>

  </userProperty>

  <userProperty>

    <key>Competences</key>

    <value>IT</value>

    <value>Leader</value>

    <value>Collaboration</value>

  </userProperty>

</userProperties>

</userInformationItem>

</userInformationItems>

</userInformationImportFile>

```

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

Mapping fields in the file

XML file field	Customer system	Fields in Antura	Example data	Mandatory
userLogin			CONTOSO\john	Yes
orgUnitReference			Gothenburg/IT	No
role			IT Administratör	No
userMetadata => firstName			John	No
userMetadata => lastName			Andersson	No
userMetadata => company			Contoso	No
userMetadata => department			GBG IT	No
userMetadata => streetAddress			Kungsgatan 555	No
userMetadata => address			411 17 Göteborg	No
userMetadata => email			john.andersson@exempel.se	No
userMetadata => telephone			555	No
userMetadata => mobilePhone			555 – 12 34 56	No
userMetadata => facsimile			555	No
userPropertyKey ¹			Employment number	No
userPropertyValue ¹			42	No

Table 1: Mapping fields in the file.

¹ userPropertyKey and userPropertyValue are part of their own xml element and there is no limit to how many of these can be created.

Matching users

The identification is done by searching in the field "username" (which in turn may contain, for example, AD username or email).

User information is only imported if exactly one user can be identified by the username.

Some users are not updated. These are users who are flagged for deletion or where the *IsSynchronized* flag is set (synchronized from AD). As for the latter of them, there is a flag to still update the user.

A user's email address must be valid (formatting) and unique in Antura.

Matching organizational units

Single matching

The identification is done by matching the value in the <orgUnitReference> tag to an organizational unit with the same reference value in Antura. If they can't be matched to exactly one org. unit, an error will be sent in the error report.

Multiple matching

Matching is done by org. unit reference in Antura which can contain multiple values for one org. unit. Example: "87236; 12378; 9872"

Matching roles

Matching is done on a unique role that already exist in Antura.

Logic regarding updates

If a field is missing a value, no change is made to the field. Existing value is not overwritten.

If a field has a value (also an empty value), this is written to the field in Antura, and it overwrites existing value.

User properties

Importing a property for a user makes a match within the <userProperty> tag where the value in the <key> tag matches the name of the property in Antura and the desired value of the property in the <value> tag.

User Information import can import the following property types: Text, Numeric ("," or "." As decimal separator), Date (YYYY-MM-DD), List, Numerical list and user (username) and can contain any number of properties.

To send multiple selected values, several values are sent within the <value> tag. See example below.

```
<userProperty>
  <key>Managers</key>
  <value>Anders</value>
  <value>Pelle</value>
</userProperty>
```

If a property cannot be identified or cannot be converted to the correct type, these errors will be sent in the email report.

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 that the import has been run and completed, as well as the number of users in the file compared to the number of users that were updated in Antura.

Warning report

Lists the usernames from the file that could not be matched to a user in Antura and the reason for this.

Error report

The error report is sent when something happens that causes the import to be interrupted.

At the beginning of the import, the file format is checked. If the file is incorrectly formatted, nothing is imported into Antura.

Configuration

Comments	Value
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)	
Match OrgUnit Reference with delimiter example: 123;456;789 (Per default false)	True/False
When using OrgUnitReferenceDelimiterMatching, this specifies the delimiter character used in the Org Unit Reference field in AP	;
If schemavalidation should be performed. A xsd file should then be referenced (Per default true)	True/False
Restrict number of validation errors when parsing schema that should be parsed. For performance reasons.	1000
Normally users with flag IsSynchronized are not updated. It is possible to override this by this flag (Per default false)	True/False

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.