

Argentis SAP E-Invoicing User Guide

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Solution

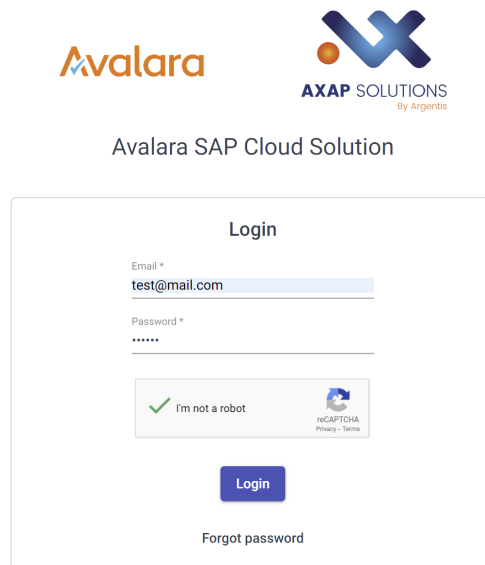
The E-Invoicing solution for SAP (E-Invoicing app) is an application interface to integrate with the Avalara E-Invoicing and Live Reporting (ELR) engine.

It's a cloud based web application, enabling you to connect to SAP for extracting invoices data, mapping to E-Invoicing mandates formats and submitting e-invoices to the Avalara E-Invoicing engine.

For SAP Business One, the E-Invoicing app will access data through SAP Service Layer. On the other side it will integrate to the Avalara ELR by using the official API endpoints provided by Avalara.

Accessing

Once you have a valid subscription for the E-Invoicing app, you will be provided with your initial User/Password combination, and can proceed to log into the application.



The image shows the login interface for the Avalara SAP Cloud Solution. At the top, there are two logos: the orange 'Avalara' logo on the left and the 'AXAP SOLUTIONS By Argentina' logo on the right, which features a stylized blue 'X' with an orange dot. Below the logos is the text 'Avalara SAP Cloud Solution'. The main content is a white box with a light blue border containing the following elements: the title 'Login' in bold; an 'Email *' field with the text 'test@mail.com'; a 'Password *' field with six dots; a reCAPTCHA widget with a green checkmark and the text 'I'm not a robot'; a blue 'Login' button; and a 'Forgot password' link at the bottom.

Users

From the users module you can create and manage users for your organization. The user quantity is limited by the license assigned to you.

Users Refresh Create new Edit Delete

User Id _____ Organization _____

User Id	Display Name	Organization	Can Admin	Active	Blocked	FailedLoginCount
test@mail.com	Test	Argentis	true	true	false	0
hritondale@argentisc...	Hector Ritondale	Argentis	true	true	false	0
eferreya@argentisco...	Emaunel Ferreyra	Argentis	true	true	false	0

By editing a User you can perform some administrative tasks like:

- Changing a user password.
- Unlock a blocked user. That occurs when a user tries 3 failed logins.
- Deactivate a user, not allowing it to log in into the application.

User < Save

User Id
test@mail.com

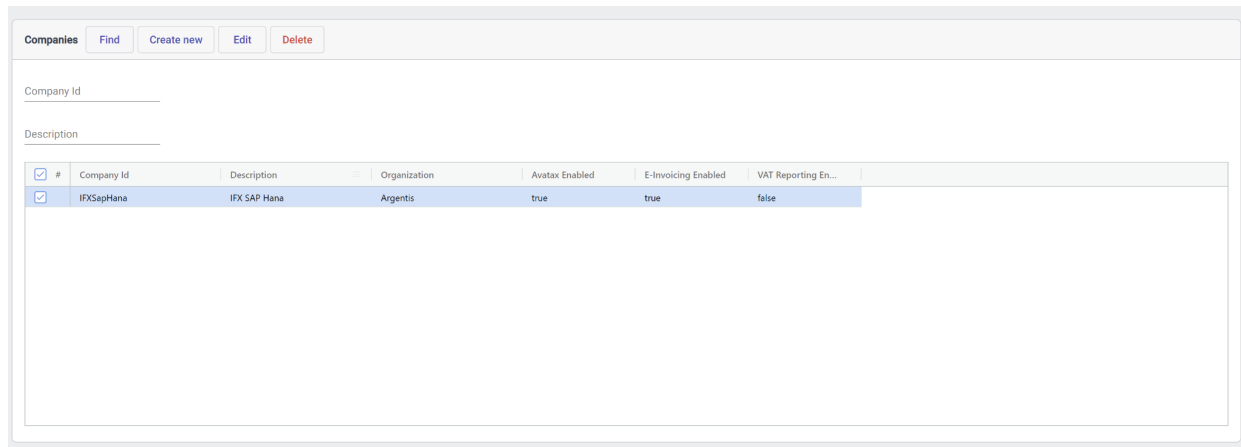
Display Name
Test

Password

Can administrate
 Active
 Blocked
Failed login count: 0

Companies

A company represents a SAP Company and the configuration for the associated Avalara products, and particularly the Avalara E-Invoicing configuration.



The screenshot displays a web interface for managing companies. At the top, there are buttons for 'Find', 'Create new', 'Edit', and 'Delete'. Below these are input fields for 'Company Id' and 'Description'. The main part of the interface is a table with the following data:

#	Company Id	Description	Organization	Avatax Enabled	E-Invoicing Enabled	VAT Reporting En...
<input checked="" type="checkbox"/>	IFXSapHana	IFX SAP Hana	Argentis	true	true	false

You can define multiple companies for your organization, having for example a production and a test company, or several production and test companies.

The count of companies you can have is defined in your assigned license.

SAP Interface

On the Company definition, the SAP Interface contains the fields to configure the SAP Service Layer parameters required for the connection.

The Service Layer URI must be completed in the form of:

<https://{server}:{port}/b1s/b2/>

Where you must replace {server} and {port} with your specific SAP Service Layer data.

After setting or changing any values in the parameters, you need to **Save** changes before using the **Test SAP Connection** button, to ensure the application tests with the saved information.

The screenshot shows the 'E-Invoicing Settings' tab. At the top, there are fields for 'Company Id' (Demo), 'Description' (Demo), and 'Organization' (Argentis Consulting). To the right, there are checkboxes for 'Avatax Enabled' (unchecked) and 'E-Invoicing Enabled' (checked). Below this, there are two sub-tabs: 'SAP Interface' and 'E-Invoicing Settings'. The 'E-Invoicing Settings' sub-tab is active, showing a table of parameters:

SAP Connection Mode	Service Layer URI	HTTP Header
Service Layer	https://emvaxps.50000/b1e/v2/	
Company Database Name	Avatax	HTTP Value
Company User Name	manager	HTTP Header
Company User Password	*****	HTTP Value

At the bottom left, there is a button labeled 'Test SAP Connection'.

E-Invoicing Settings

On the E-Invoicing settings tab you will find the specific settings for the E-Invoicing product.

Connection

On the Connection tab you need to configure the parameter values provided by Avalara when signing for the E-Invoice service.

The parameters will include an API Token URI, an API URI, and your specific credentials: a Client ID and Client Secret.

Complete all of the fields, **Save**, and **Test E-Invoicing connection** with the provided button.

You will see a green Connection Succeed message on the screen if the data is valid.

The screenshot shows the 'Connection' tab. At the top, there are fields for 'Company Id' (Demo), 'Description' (Demo), and 'Organization' (Argentis Consulting). To the right, there are checkboxes for 'Avatax Enabled' (unchecked) and 'E-Invoicing Enabled' (checked). Below this, there are two sub-tabs: 'SAP Interface' and 'E-Invoicing Settings'. The 'E-Invoicing Settings' sub-tab is active, showing a table of parameters:

Connection	Settings
API Token URI	https://@l-sbx.avlr.sh
API Base URI	https://api.sbx.avalara.com
Client Id	e163e195da7146cdb350cc7020003802
Client Secret	*****

At the bottom left, there is a button labeled 'Test E-Invoicing connection'.

Settings

At the E-Invoicing settings tab the following options are available:

- Restrict templates to company specific templates: Mapping templates are linked to an Organization and can be linked to a Company. If this setting is enabled, you will restrict users to only select company specific templates. In disabled the user can select any template from the Organization.
- Public templates enabled. Public templates are provided in the solution as standard examples, and can be used in your company when this setting is enabled.
- Enable SAP UDFs to link and filter invoices in SAP: when enabling this, the application will save E-Invoicing data into the SAP document, on UDFs.

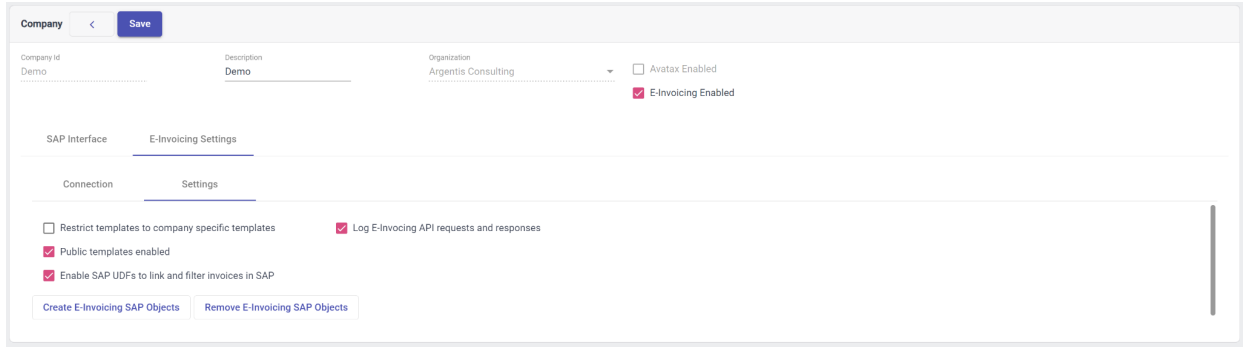
In order to be able to use this UDFs you first need to create them, by using the **Create E-Invoicing SAP Objects** button.

This UDFs are:

- U_ARNGS_EInvId. The E-Invoice ID
- U_ARNGS_EInvStatus. The E-Invoice Status

UDF data will be automatically populated by the application during the submit and check status processes.

- Log E-Invoicing API request and responses. This setting enables recording the API request and response calls into the application log. This can be turned off, and enabled if required by Avalara or support to investigate any document.



Country Mandates

From the **List Mandates** module, you can view the E-Invoicing available mandates supported by the Avalara ELR platform.

This is an only-view module, detailing the Country Mandate code, country code and mandate format.

Country Mandate	Country Code	Mandate Format	Description
PT-82B-CLEARANCE	PT	pdf	The mandate supporting 82B clearance in Portugal. This function will return a PDF invoice with the required QR-Codes, ATCUD and a legal Stamp. The invoice will not be sent to the buyer.
PT-82C-CLEARANCE	PT	pdf	The mandate supporting 82C clearance in Portugal. This function will return a PDF invoice with the required QR-Codes, ATCUD and a legal Stamp. The created invoice will not be sent to the buyer.
DE-ZUGFERD	DE	zugferd_2.1.1	The mandate supporting voluntary 82B invoicing in Germany. This function will create a ZUGFERD PDF file with an attached xml file. The created invoice will not be sent to the buyer.
DE-82G-PEPPO	DE	rechnung_2.0	The mandate supporting 82G invoicing in Germany. This function will create a Rechnung 2.0 and sends the invoice to the related recipient via the Peppol network.
SA-82A1-82B	SA	zafca-reporting_1.0	The mandate supporting 82B clearance in Saudi Arabia. This function will return a cleared invoice validated by ZATCA (SA's tax authority) which includes a QR-Code as well as a legal stamp. The created invoice will not be se...
SA-82A1-82C-PDF	SA	zafca-pdf	The mandate supporting 82C invoicing in Saudi Arabia. This function will return a cleared simplified invoice validated by ZATCA (SA's tax authority) which includes a QR-Code as well as a legal stamp. The created invoice will...
PL-82B-ENVOICE	PL	factura	The mandate supporting 82B invoicing in Poland. This function will convert the data in the required format and sends it to the tax authority (KSEF). The tax authority will then send the invoice the buyer.
PL-82G-ENVOICE	PL	factura	The mandate supporting 82G invoicing in Poland. This function will convert the data in the required format and sends it to the tax authority (KSEF). The tax authority will then send the invoice the buyer.
ES-82B-FACE	ES	facturaE	The mandate supporting 82B invoicing in Spain. This function will convert the data in the required format and sends it to the tax authority (FACEDS). The tax authority will then send the invoice the buyer.
AU-82G-PEPPO	AU	peppol-bis_3.0	The mandate supporting 82G invoicing in Australia. This function will create a Peppol BIS 3.0 file and sends the invoice to the related recipient via the Peppol network.
AT-82G-PEPPO	AT	peppol-bis_3.0	The mandate supporting 82G invoicing in Austria. This function will create a Peppol BIS 3.0 file and sends the invoice to the related recipient via the Peppol network.
BE-82G-PEPPO	BE	peppol-bis_3.0	The mandate supporting 82G invoicing in Belgium. This function will create a Peppol BIS 3.0 file and sends the invoice to the related recipient via the Peppol network.
CY-82G-PEPPO	CY	peppol-bis_3.0	The mandate supporting 82G invoicing in Cyprus. This function will create a Peppol BIS 3.0 file and sends the invoice to the related recipient via the Peppol network.
AD-82G-PEPPO	AD	peppol-bis_3.0	The mandate supporting 82G invoicing in Andorra. This function will create a Peppol BIS 3.0 file and sends the invoice to the related recipient via the Peppol network.
NZ-82G-PEPPO	NZ	peppol-bis_3.0	The mandate supporting 82G invoicing in New Zealand. This function will create a Peppol BIS 3.0 file and sends the invoice to the related recipient via the Peppol network.

It's possible to view the mandate required fields definition. This can be used during the mapping templates edition, to get detailed information about specific fields in the country mandate.

Paste here the XML template. You can use sample E-Invoicing documents as templates, or refer to the specific format samples, for example Peppol.

XML Target Template

```
<?xml version="1.0" encoding="UTF-8"?>
<Invoice xmlns:cac="urn:oasis:names:specification:ubl:schema:xsd:CommonAggregateComponents-2"
  xmlns:cbc="urn:oasis:names:specification:ubl:schema:xsd:CommonBasicComponents-2"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns="urn:oasis:names:specification:ubl:schema:xsd:Invoice-2"
  xmlns:ext="urn:oasis:names:specification:ubl:schema:xsd:CommonExtensionComponents-2"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:oasis:names:specification:ubl:schema:xsd:Invoice-2 http://docs.oasis-open.org/ubl/os-UBL-2.1/xsd/maindoc/UBL-Invoice-2.1.xsd">
  <cbc:CustomizationID>urn:cen.eu:en16931:2017#compliant#urn:fdc.peppol.eu:2017:poacc:billing:3.0</cbc:CustomizationID>
  <cbc:ProfileID>urn:fdc.peppol.eu:2017:poacc:billing:01:1.0</cbc:ProfileID>
  <cbc:ID></cbc:ID>
  <cbc:IssueDate></cbc:IssueDate>
  <cbc:IssueTime></cbc:IssueTime>
  <cbc:DueDate></cbc:DueDate>
  <cbc:InvoiceTypeCode></cbc:InvoiceTypeCode>
  <cbc:DocumentCurrencyCode></cbc:DocumentCurrencyCode>
  <cbc:AccountingCost></cbc:AccountingCost>
  <cbc:BuyerReference></cbc:BuyerReference>
  <cac:OrderReference>
    <cbc:ID></cbc:ID>
```

Source data

On the right side, you need to define the SAP Service Layer endpoints to be used as a source for getting the invoice and other required objects.

In **Default Service Endpoint** and **Default Service Object** you define the main source Object to be used as a source, and the Service Layer URI for the object.

In this sample the URI is *Invoices({0})?\$expand=BusinessPartner*

{0} is a parameter that will be replaced with the SAP document DocEntry when getting the data from SAP.

Default Service Endpoint

Invoices({0})?\$expand=BusinessPartner

Test template

Default Service Object

Invoices

Validate required fields

Test SAP DocEntry

1075

You can use additional Service Layer endpoints as source for the template.

In this example two additional ServiceObjects are added: AdminInfo an a custom SQLQuery.

Add endpoint Delete selected

<input type="checkbox"/>	#	ServiceObject	ServiceEndpoint
<input type="checkbox"/>		Admininfo	CompanyService_GetAdminInfo
<input type="checkbox"/>		ADM1	SQLQueries('ARGNS_ADM1Info')/List

To add a new Service Object use the **Add** button, and complete the fields.

Select the HTTP method, the ServiceObject name (that will be used as reference) and the Endpoint, that is the service layer URI for the service or object.

Service data

Field Type: GET Service Object: ADM1 Service Endpoint: SQLQueries('ARGNS_ADM1Info')/List

Is SQL Query

Confirm Close

Mapping rules

To map each field from the source data to the target xml field you need to define a rule.

The final E-Invoice document will be created by executing all rules in order, mapping all of the fields.

Add rule Duplicate rule Delete selected

<input type="checkbox"/>	#	Description	Order	SubOrder	Type	Repeating Section	XPath	XML Attribute	Json Object	Json Field	Field Format	Fixed Value	Script
<input type="checkbox"/>		IssueDate	1	0	text		//cbc:IssueDate		Invoices	DocDate	yyyy-MM-dd		
<input type="checkbox"/>		ID	1	0	text		//cbc:ID		Invoices	DocEntry			
<input type="checkbox"/>		InvoiceTypeCode	1	0	fixedValue		//cbc:InvoiceTypeCode					300	
<input type="checkbox"/>		IssueTime	1	1	text		//cbc:IssueTime		Invoices	DocTime			
<input type="checkbox"/>		DueDate	1	2	text		//cbc:DueDate		Invoices	DocDueDate	yyyy-MM-dd		
<input type="checkbox"/>		DocumentCurrencyCode	1	3	script		//cbc:DocumentCurrencyCode		Invoices	DocCurrency			str
<input type="checkbox"/>		Company Cpy	200	1	text		//cac:AccountingSupplierParty[1]/cac:Party[1]/cac:PostalAddress[1]/cbc:CityName[1]		ADM1	City			
<input type="checkbox"/>		Company ZIP	200	1	text		//cac:AccountingSupplierParty[1]/cac:Party[1]/cac:PostalAddress[1]/cbc:PostalZone[1]		ADM1	ZipCode			
<input type="checkbox"/>		Party EndpointID	200	1	fixedValue		//cac:AccountingSupplierParty[1]/cac:Party[1]/cbc:EndpointID[1]		Invoices			ARGENTSBATTEST	
<input type="checkbox"/>		Party EndpointID:schemaID	200	1	fixedValue		//cac:AccountingSupplierParty[1]/cac:Party[1]/cbc:EndpointID[1]	schemaID	Invoices			0008	
<input type="checkbox"/>		Party Legal Entity RegistrationName	200	1	text		//cac:AccountingSupplierParty[1]/cac:Party[1]/cac:PartyLegalEntity[1]/cbc:RegistrationName[1]		AdminInfo	Company Name			

Basic rules

Open each rule definition by double clicking it, or use the **Add Rule** button to create a new one.

In the mapping rule need to define:

Field Type:

- Text, Date, Decimal Number, Integer number. All of these have the same definition.
- Target XML XPath. This is the XPath value to match the target field to be set in the E-Invoice document format. This is where the source value will be copied to.
- Target XML Attribute name. If the value must be mapped to an attribute of the xml field, complete the attribute name here.
- Source Json Object. On this dropdown the configured source objects will appear. Select one of the defined objects.
- Source Json Field. The field in the SAP Service Layer Json object to be used.
- Field Format: If you need to apply a format to the field, like when using dates or numeric fields.
- Rule Order and Suborder. The Rules are executed in the configured order. Use this fields to setup the desired order.

The screenshot shows a 'Mapping Rule' configuration window. It contains several input fields and dropdown menus:

- Field Type:** text
- Target Xml XPath:** //cbc:IssueDate
- Source Json Object:** Invoices
- Description:** IssueDate
- Target XML Attribute Name:**
- Source Json Field:** DocDate
- Rule Order:** 1
- Rule Sub Order:** 0
- Repeating Section:** (dropdown menu)
- Field Format:** yyyy-MM-dd
- Comments:** Invoice issue date: The date when the Invoice was issued. Format YYYY-MM-DD. <https://docs.peppol.eu/poacc/billing/3.0/syntax/ubl-invoice/cbc-IssueDate>

At the bottom, there are 'Confirm' and 'Close' buttons.

Repeating sections

A special type of rule is the **Repeating Section**. This rule is to define sections in the format that needs to be repeated, like invoice lines.

For example, to map the SAP invoice lines, use an example like the one displayed below.

The **DocumentLines** is the array of lines in the Invoice document. In this definition we are indicating the rule that for each item in the **DocumentLines** Json Field a new item must be created in **//cac:InvoiceLine**

Mapping Rule

Field Type	Repeating section	Target Xml XPath	//cac:InvoiceLine	Source Json Object	Invoices
Description	Document Lines	Target XML Attribute Name		Source Json Field	DocumentLines
Rule Order	400	Rule Sub Order	0	Repeating Section	DocumentLines

Comments

Confirm Close

Then when a RepeatingSection is defined, you can create rules to map fields in the repeating section. In this sample, see how the **Invoices.ItemCode** from SAP is mapped to the **//cac:Item/cbc:Name** in the xml e-invoice format. For this it is required to select the desired RepeatingSection in the dropdown.

Mapping Rule

Field Type	text	Target Xml XPath	//cac:Item/cbc:Name	Source Json Object	Invoices
Description	Item.Name	Target XML Attribute Name		Source Json Field	ItemCode
Rule Order	400	Rule Sub Order	1	Repeating Section	DocumentLines

Comments

Item name: A name for an item.

Confirm Close

Fixed rules

This rule let you set fixed values to a target field

Mapping Rule

<small>Field Type</small> Fixed Value	<small>Target Xml XPath</small> //cac:item/cac:ClassifiedTaxCategory/cac:TaxScheme/cbc:ID	<small>Fixed Value</small> VAT
<small>Description</small> TaxScheme.ID	<small>Target XML Attribute Name</small>	
<small>Rule Order</small> 400	<small>Rule Sub Order</small> 5	<small>Repeating Section</small> DocumentLines

Comments
Mandatory element. Use "VAT"

Running Total rules

If you need to summarize a field from a RepeatingSection you can use this kind of rule.

In this example, the rule will add each LineTotal from the DocumentLines repeating section, setting the total the target xml `//cac:LegalMonetaryTotal[1]/cbc:LineExtensionAmount[1]`

Mapping Rule

<small>Field Type</small> Running Total	<small>Target Xml XPath</small> //cac:LegalMonetaryTotal[1]/cbc:LineExtensionAmount[1]	<small>Source Json Object</small> Invoices
<small>Description</small> LegalMonetaryTotal.LineExtensionAmount	<small>Target XML Attribute Name</small>	
<small>Rule Order</small> 255	<small>Rule Sub Order</small> 1	<small>Source Json Field</small> LineTotal
<small>Repeating Section</small> DocumentLines		<small>Field Format</small> 0.00
<small>Repeating Section Filter Field 1</small>		<small>Repeating Section Filter Value 1</small>
<small>Repeating Section Filter Field 2</small>		<small>Repeating Section Filter Value 2</small>

Comments
Sum of Invoice line net amount. Sum of all Invoice line net amounts in the Invoice. \nMust be rounded to maximum 2 decimals.

Script rules

An advanced type of rule is available when some logic is required to produce the target value. For example here is a script to produce a DocumentCurrency formatted.

The code allows to use basic C# scripting to produce the output. Here because the source DocCurrency in SAP is defined with the \$ symbol, it needs to be transformed to an ISO code representation of it.

The script will convert \$ to USD, otherwise it will output the DocCurrency value.

Mapping Rule

Field Type	Script	Target Xmi XPath	//cbc:DocumentCurrencyCode	Source Json Object	Invoices
Description	DocumentCurrencyCode	Target XML Attribute Name		Source Json Field	DocCurrency
Rule Order	1	Rule Sub Order	3	Repeating Section	

Script code

```
string result="";
switch (param1)
{
  case "$": result = "USD"; break;
  default: result=param1; break;
}
return result;
```

Param 1 Json Object	Invoices	Param 1 Json Field	DocCurrency
Param 2 Json Object		Param 2 Json Field	
Param 3 Json Object		Param 3 Json Field	
Param 4 Json Object		Param 4 Json Field	

Comments

Document currency code : The currency in which all document amounts are given, except for the Total VAT amount in accounting currency. <https://docs.peppol.eu/poacc/billing/3.0/synta>

E-Invoice Submission

This module allows to create, view and process E-Invoicing submit jobs. On the main screen of the module, you will have all of your previous jobs listed, and can use the filters in the top to look for specific jobs.

E-Invoicing Refresh Create new Delete View

Job Id Company Creation Date From Creation Date To

Status Any Organization Schedule Date From Schedule Date To

Automatic Job Any Automatic Job Enabled

#	Job Id	Organization	Automat...	Automat...	Company	Template	Job Status	Docs	Succeed	Error	Creation Date	Schedule Date	Last Process Date	Status	Error
<input type="checkbox"/>	demo-jun1	Argentis	No	No	IFXSapHana	Australia-Peppol	Completed	1	1	0	06-01-2023 09:19:54	12-31-0000 2006:12	06-01-2023 09:21:19	Completed	
<input type="checkbox"/>	demo-au230...	Argentis	No	No	IFXSapHana	Australia-Peppol	Completed	2	2	0	05-31-2023 10:01:07	05-31-2023 10:01:07	05-31-2023 10:03:24	Completed	
<input type="checkbox"/>	demo-au	Argentis	Yes	No	IFXSapHana	Australia-Peppol	None	0	0	0	05-31-2023 10:00:52	12-31-0000 2006:12	05-31-2023 10:01:09	Completed	Succeed
<input type="checkbox"/>	demo-de	Argentis	No	No	IFXSapHana	DE_Peppol	Completed	1	1	0	05-31-2023 09:57:40	12-31-0000 2006:12	05-31-2023 09:59:07	Completed	
<input type="checkbox"/>	23053000	Argentis	No	No	IFXSapHana	Australia-Peppol	Completed	1	1	0	05-30-2023 16:00:41	12-31-0000 2006:12	05-30-2023 16:02:15	Completed	
<input type="checkbox"/>	test001	Argentis	No	No	IFXSapHana	Australia-Peppol	None	1	0	0	05-10-2023 15:44:48	12-31-0000 2006:12	12-31-0000 2006:12	Completed	
<input type="checkbox"/>	demo11	Argentis	No	No	IFXSapHana	Australia-Peppol	Completed	1	1	0	05-08-2023 11:02:54	12-31-0000 2006:12	05-08-2023 11:04:12	Completed	
<input type="checkbox"/>	testAustralia	Argentis	No	No	IFXSapHana	Australia-Peppol	Completed	1	1	0	03-16-2023 15:12:51	12-31-0000 2006:12	03-16-2023 16:19:17	Completed	
<input type="checkbox"/>	test	Argentis	No	No	IFXSapHana	Peppol	Error	1	0	0	03-13-2023 15:53:33	12-31-0000 2006:12	03-15-2023 14:29:12	Error	Error: HK
<input type="checkbox"/>	other	Argentis	No	No	IFXSapHana	Peppol	Completed	2	0	2	02-06-2023 16:35:28	12-31-0000 2006:12	02-06-2023 17:28:08	Completed	
<input type="checkbox"/>	autolob	Argentis	Yes	No	IFXSapHana	Peppol	None	0	0	0	01-25-2023 10:41:45	12-31-0000 2006:12	01-25-2023 11:10:16	Completed	Succeed

Jobs

Any document submission is done with a job.

When creating a new job, you need to define on the **Parameters** tab some data:

- Job Id: Is the job identifier, must be unique.
- Organization: Select your organization from the dropdown list.
- Company: Select the desired company from the dropdown list. This will indicate the application which is the SAP Company where the job will be connecting to.
- Template: Select from the dropdown the desired Mapping Template to be used for this job. This will determine how the e-invoice document is created, based on the mapping template definition.

E-Invoicing < Save Schedule to start Stop Reset documents on error

Parameters Documents E-Invoicing

Job Id DemoJob Template DE_Peppol

Organization Argentis Consulting

Company Demo

Automatic Job

Automatic Execution Enabled

On the **Documents** tab you will find and select the documents to be included in the job for submission.

You can use the filters in the top to filter the results by specific conditions like the document number, customer code, dates, or also custom filters. Custom filters provide the option to filter by UDFs in the SAP document.

Select the desired documents, and use the **Add Selected** button to include the documents in the job.

The screenshot displays the 'E-Invoicing' interface. At the top, there are navigation buttons: '<', 'Save', 'Schedule to start', 'Stop', and 'Reset documents on error'. Below this, there are tabs for 'Parameters', 'Documents', and 'E-Invoicing'. The 'Documents' tab is active, showing a search area with 'Find' and 'Add selected' buttons. The search area includes fields for 'Doc Num From' (1500), 'Doc Num To' (0), 'Posting Date', 'Customer Code', 'Customer Name', 'Customer Group', and three 'Custom filter' fields. A checkbox for 'A/R Invoices' is checked. Below the search area is a table with columns: #, SAP Doc ..., Document No, Entry, Cancelled, Document Date, E-Invoice Id, E-Invoice Sta..., Delivery Date, BP Code, BP Name, BP Group, SAP Ship..., Country, and State. The table contains 21 rows of data, with the first two rows selected. At the bottom, it shows 'Record count: 21 Selected: 2'.

#	SAP Doc ...	Document No	Entry	Cancelled	Document Date	E-Invoice Id	E-Invoice Sta...	Delivery Date	BP Code	BP Name	BP Group	SAP Ship...	Country	State
<input checked="" type="checkbox"/>	A/R Invoice	1524	1524		07-28-2023			08-28-2023	C30000	Microchips	Large Accou...			
<input checked="" type="checkbox"/>	A/R Invoice	1523	1523		07-27-2023			08-28-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1522	1522		07-27-2023			07-27-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1521	1521		07-27-2023			07-27-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1520	1520		07-27-2023			07-27-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1519	1519		07-27-2023			07-27-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1518	1518		07-27-2023			07-27-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1517	1517		07-27-2023			07-27-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1516	1516		07-26-2023			08-25-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1515	1515		07-26-2023			08-25-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1514	1514		07-25-2023			08-24-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1513	1513		07-25-2023			08-24-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1512	1512		07-25-2023			08-24-2023	C30000	Microchips	Large Accou...			
<input type="checkbox"/>	A/R Invoice	1511	1511		07-07-2023			07-07-2023	C30000	Microchips	Large Accou...			

On the **E-Invoicing** tab you will see the documents selected for submission.

You can delete documents from the list by selecting rows and clicking on **Delete selected**.

To start the job execution you must schedule it, selecting the desired start date and time, and then clicking on **Schedule to start**.

E-invoicing < Save Schedule to start Stop Reset documents on error

Parameters Documents E-invoicing

Status
Status
None

Start job on
Schedule to start at
8/17/2023, 14:36:16

Documents status count
Status Count

0001-12-31 20:06:12

Organization: Argentis
Company: Demo

Delete selected

#	Status	Result	Avatars S...	Avatars Id	Last update	E-Invoice Id	E-Invoice Sta...	SAP Doc ...	Document No	Entry	Cancelled	Document Date	Delivery Date	BP Code	BP Name	BP Group	SAP Ship...	Country
<input type="checkbox"/>	None				01-01-0001 00:00:00			A/R Invoice	1124	1124		07-28-2023	08-28-2023	C30000	Microchips	Large Accto...		
<input type="checkbox"/>	None				01-01-0001 00:00:00			A/R Invoice	1123	1123		07-27-2023	08-28-2023	C30000	Microchips	Large Accto...		

Record count: 2 Selected: 0

The execution is performed by an asynchronous processor.

You don't need to keep the browser window open in the application. The job is totally executed in the cloud. You can close the browser and open the job anytime later to view the current status.

After you **Schedule to start** you will see the Job status changing to Scheduled. The job processing will start shortly after the scheduled starting date and time is reached. Setting a starting time in the past will produce the job to be processed a few seconds after the job is scheduled.

E-invoicing < Save Schedule to start Stop Reset documents on error

Parameters Documents E-invoicing

Status
Status
Scheduled

Start job on
Schedule to start at
8/17/2023, 14:36:16

Documents status count
Status Count
None 2

0001-12-31 20:06:12
Scheduled to start

Organization: Argentis
Company: Demo

Delete selected

#	Status	Result	Avatars S...	Avatars Id	Last update	E-Invoice Id	E-Invoice Sta...	SAP Doc ...	Document No	Entry	Cancelled	Document Date	Delivery Date	BP Code	BP Name	BP Group	SAP Ship...	Country
<input type="checkbox"/>	None				01-01-0001 00:00:00			A/R Invoice	1124	1124		07-28-2023	08-28-2023	C30000	Microchips	Large Accto...		
<input type="checkbox"/>	None				01-01-0001 00:00:00			A/R Invoice	1123	1123		07-27-2023	08-28-2023	C30000	Microchips	Large Accto...		

Record count: 2 Selected: 0

When the processing starts, you will see the status changing to **Posting**.

The screenshot shows the E-Invoicing interface with the status set to 'Posting'. The 'Status' box is orange and contains the text 'Status Posting'. Below it, a blue box shows the timestamp '2023-08-03 15:01:24 Posting E-Invoice entry 1524'. The 'Start job on' section shows a schedule to start at '8/1/2023, 15:00:04'. The 'Documents status count' table shows 'None' with a count of '2'. The main table lists two documents with 'None' status.

#	Status	Result	Avalara S...	Avalara Id	Last update	E-Invoice Id	E-Invoice Sta...	SAP Doc...	Document No	Entry	Cancelled	Document Date	Delivery Date	BP Code	BP Name	BP Group	SAP Shp...
<input type="checkbox"/>	None				08-03-2023 14:52:29			A/R Invoice	1524	1524		07-28-2023	08-28-2023	C30000	Microchips	Large Accto...	
<input type="checkbox"/>	None				08-03-2023 14:52:33			A/R Invoice	1523	1523		07-27-2023	08-28-2023	C30000	Microchips	Large Accto...	

After the **Posting** phase is completed, you will see on each document row information the specific status for each document.

If the document was posted also an Avalarra ID will be shown for the document. This is the ID generated by Avalara when receiving the E-Invoice, and it's used for tracking the document status.

The screenshot shows the E-Invoicing interface with the status set to 'Completed'. The 'Status' box is green and contains the text 'Status Completed'. Below it, a blue box shows the timestamp '2023-08-03 15:01:55 Completed'. The 'Start job on' section shows a schedule to start at '8/1/2023, 15:00:04'. The 'Documents status count' table shows 'WaitingConfirm...' with a count of '2'. The main table lists two documents with 'WaitingConfirmation' status and includes Avalara IDs.

#	Status	Result	Avalara S...	Avalara Id	Last update	E-Invoice Id	E-Invoice Sta...	SAP Doc...	Document No	Entry	Cancelled	Document Date	Delivery Date	BP Code	BP Name	BP Group	SAP Sh
<input type="checkbox"/>	WaitingConfirmation			2023-08-028976	08-03-2023 15:01:28			A/R Invoice	1524	1524		07-28-2023	08-28-2023	C30000	Microchips	Large Accto...	
<input type="checkbox"/>	WaitingConfirmation			2023-08-028978	08-03-2023 15:01:54			A/R Invoice	1523	1523		07-27-2023	08-28-2023	C30000	Microchips	Large Accto...	

When a document is successfully posted to the Avalara ELR engine, the initial status will be Pending, as the document needs to be processed. While it's in process, the

E-Invoicing app will show a WaitingConfirmation status, and the app will be checking the document status until a final status is available. When that occurs, the status will be automatically updated.

E-Invoice Monitor

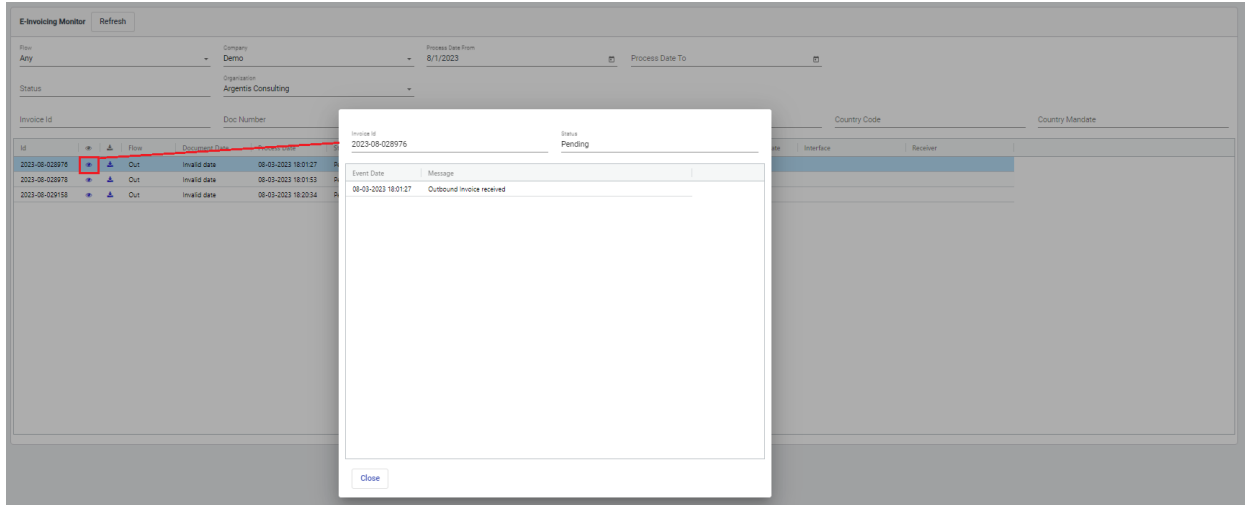
The monitor is a module to view all E-invoices associated with your Avalara ELR account (linked to your company).

Outbound (invoices sent by you) and Inbound (invoices received) documents can be listed, and several filters are provided.

The screenshot shows the 'E-Invoicing Monitor' interface. At the top, there is a 'Refresh' button. Below it are several filter fields: 'Flow' (set to 'Any'), 'Company' (set to 'Demo'), 'Process Date From' (set to '8/1/2023'), 'Process Date To', 'Status', 'Organization' (set to 'Argentis Consulting'), 'Invoice Id', 'Doc Number', 'Supplier Name', 'Customer Name', 'Country Code', and 'Country Mandate'. Below the filters is a table with the following columns: 'Id', 'Flow', 'Document Date', 'Process Date', 'Status', 'Supplier Name', 'Customer Name', 'Doc Number', 'Country Code', 'Country Mandate', 'Interface', and 'Receiver'. The table contains three rows of data:

Id	Flow	Document Date	Process Date	Status	Supplier Name	Customer Name	Doc Number	Country Code	Country Mandate	Interface	Receiver
2023-08-0228976	Out	Invalid date	08-03-2023 18:01:27	Pending							
2023-08-0228976	Out	Invalid date	08-03-2023 18:01:53	Pending							
2023-08-0229198	Out	Invalid date	08-03-2023 18:20:34	Pending							

The eye icon is a button that can be used to popup the specific document status, refreshed at the moment directly from the Avalara ELR API.



The download link gives the popup menu to download the e-invoice file. The available formats to download depends on the country mandate format and the Avalara ELR engine API capabilities.

