IRISPowerscan 11

IRISConnect Toolbox 2.14 - Addendum

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1. Introduction

This Technical Note is an addendum to the IRISConnect 2.14 Administration and User Guide and highlights the specificities of the IRISConnect Toolbox usage in IRISPowerscan 11.

In this Technical Note we first explain the interaction between the IRISPowerscan 11 processing flow and the IRISConnect Toolbox connector. Then, we provide some guidelines on how to configure IRISConnect Toolbox so its possibilities and limitations become apparent. Finally we provide examples the user may refer to to build his own configuration.

Note: this document is based on the current IRISPowerscan 11 status. Highlighted text indicates improvements and new features that may be implemented in future versions of IRISPowerscan 11.

Blue: features that may be improved.

Yellow: features that are currently not available in IRISPowerscan 11 but may be implemented as new feature in future versions.

2. Interaction between IRISPowerscan 11 and IRISConnect Toolbox

2.1 Input from IRISPowerscan 11

While processing batches, IRISPowerscan 11 provides IRISConnect Toolbox with input that consists of

the following elements:

Fields related to the processed nodes (batches, documents, pages) Signals that mark the start and the end of each processed node

Objects (documents file(s), images and attached images) related to each processed node Interactions occur in the following sequence:

For each batch:

1. Provides batch fields
2. Send “StartBatch” signal
3. For each document:
    a. Provides document fields
    b. Send “StartDocument” signal
    c. For each page:
        i. Send “StartPage” signal
        ii. Provides page image file(s)
        iii. Send “EndPage”signal (this event is not sent for the last page)
    d. For each document file:
        i. Provides document fields
        ii. Provides batch fields

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iii. For each line item

1. Provides line item fields

iv. Provides document file

e. Send “EndDocument” signal

4. Send “EndBatch“ signal

2.1.1 Fields

Each field is provided as a pair that consists of:

- A label (the name of the field)
- A value (the value of the field)

The provided sets of fields vary depending on the processed node level (batch, document). Provided fields are:

- Defined fields at batch or document level
- Extra fields to store the name and the type of node

The following tables give the complete list of fields, depending on the processing level (<> delimited parts in field labels are variable, depending on the node – batch, document - configuration):

At start batch level (1. - These are set prior to send the “StartBatch” signal):

Field label	Field value
Batch.Type	The batch type (as specified in the Name field of the batch type definition in IRISPowerscan 11 project designer)
<*batch type*>.Name	The batch name (as specified in the Naming field of the batch type definition in the IRISPowerscan 11 project designer)
<*batch type*>.<*field name*>	The batch field value
<*field name*>	Same as previous

At start document level (3.a. - These are set prior to send the “StartDocument” signal)

Field label	Field value
Document.Type	The document type (as specified in the Name field of the document type definition in IRISPowerscan 11 project designer)
<*document type*>.Name	The document name (as specified in the Naming field of the document type definition in the IRISPowerscan 11 project designer)
<*document type*>.<*field name*>	The field value
<*field name*>	Same as previous

At start page level: Page fields are not transmitted.

At document file(s) level (3.d.i., 3.d.ii. – Those are set prior to provide each document file):

Field label	Field value
Batch.Type	The batch type (as specified in the Name field of the batch type definition in IRISPowerscan 11 project designer)
Batch.Name	The batch name (as specified in the Naming field of the batch type definition in the IRISPowerscan 11 project designer)
<*batch type*>.<*field name*>	The field value
<*field name*>	Same as previous
BatchType.<*field name*>	Same as previous
Document.Type	The document type (as specified in the Name field of the document type definition in IRISPowerscan 11 project designer)

Document.Name	The document name (as specified in the Naming field of the document type definition in the IRISPowerscan 11 project designer)
<document type>.<field name>	The field value
<field name>	Same as previous
DocumentType.*<field name>*	Same as previous

Notes:

- Having fields with same name at batch and document level may lead to a name conflict regarding the [*field name*] entry (field value from document may be overwritten by batch field value). To avoid any conflict, batch fields and document fields should have distinct names.
- The Name field is set as [*batch type*].Name or [*document type*]. Name on corresponding start events but as Batch.Name or Document.Name when receiving the object.

At line item level (3.d.iii.1. – Those are provided for each line item, prior to the each document file)

Field label	**Field value**
DocumentType.*<tablefield name>.<tablefield'sfield name>*	The tablefield's field value
<tablefield name>.<tablefield'sfield name>	Same as previous

2.1.2 Signals

Each field is provided as a pair that consists of:

- A type (the type of the node for which the signal is sent)
- A name (the name of the signal)

The signal name will be one of the following: Note that these names are case sensitive.

- "StartBatch"
- "StartDocument"
- "StartPage"(currently not used by IRISConnect Toolbox)
- "Endpage" (currently not used by IRISConnect Toolbox)
- "EndDocument"
- "EndBatch"

The signal type will vary depending on the IRISPowerscan 11 project configuration. It will be:

- The current batch type (as specified in the Name field of the batch type definition in IRISPowerscan 11 project designer) for the "StartBatch" and "EndBatch" events.
- The current document type (as specified in the Name field of the document type definition in IRISPowerscan 11 project designer) for the "StartDocument" and "EndDocument" events.
- "Page" for the "StartPage" and "EndPage" events (those events are currently not used by IRISConnect Toolbox).

2.1.3 Page file(s)

For each document's page, IRISPowerscan 11 provides page file(s) (from cache). For each page file, IRISPowerscan 11 will provide:

- A type (the page type, depending on the stream and face - see below)
- A name (the name of the page - see below)
- A file (the file path)

The page name will be one of the following:

  - "Image" for non-attached pages
  - "AttachedImage" for attached pages

The page type will be one of the following:

  - "FB" for black and white front page
  - "FG" for grayscale front page
  - "FC" for color front page
  - "RB" for black and white rear page
  - "RG" for grayscale rear page
  - "RC" for color rear page

2.1.4 Document file(s)

When processing documents IRISPowerscan 11 provides document files (the number of files per document will depend on the chosen output format). For each document file, IRISPowerscan 11 will provide:

- A type (the document type, as specified in the Name field of the document type definition in IRISPowerscan 11 project designer)
- A name (the name of the document, as specified in the Naming field of the output definition in IRISPowerscan 11 project designer)
- A file (the file path)

2.2 Processing the IRISPowerscan 11 input in IRSISConnect Toolbox

2.2.1 Input

As explained above, IRISConnect receives various kinds of information from IRISPowerscan 11:

- Fields
- Signals
- Document files

Note:

- When receiving a document file IRISConnect Toolbox internally produces two signals:
  - "AddObject"
  - "AddFile"

2.2.2 Configuration

The IRISConnect configuration is constructed in the following hierarchy:

- Connection
  - Ruleset
    - Rule

Rules may be of various kinds, among:

- Folder
- File
- Text file (Signal)
- Command
- Connector

Each of these kinds of rules can be added to a ruleset in any required order.

2.2.3 Processing

FIELDS

Received Fields are stored to be available when processing signals or document files.

SIGNALS AND FILES

IRISConnect Toolbox processes each received signal or document file by running the provided configuration.

Ruleset are evaluated as long as their type/condition is verified.

Rules are evaluated or not, depending on the input:

- Folder : on each received document file
- File : on each received document file
- Text file (Signal) : on each received signal or document file
- Command : on each received signal or document file
- Connector : on each received signal or document file

3. Configuring IRISConnect Toolbox

Connections, rulesets and rules are configured providing some parameters through the related configuration dialogs.

3.1 Configuration parameters

Parameter values that you enter in the configuration dialogs must be valid C# expressions including literal string constants, variables and field references.

3.1.1 String literals

Literal string constants are string expression delimited by double quotes.

3.1.2 Variables

Variables are internally defined and initialized by the IRISConnect Toolbox connector. Known variables are:

- signal
- name
- type
- filename
- extension
- filepath

Tips:

- Variable names are case sensitive.
- Variable values may vary depending on the received input (signal or document file). See the summary table below.
- Some variables may not be available depending on the received signal. See the summary table below.

Signal (from IRISPowerscan 10):	"StartBatch"	"StartDocument"	NA	NA	"EndDocument"	"EndBatch"
Event (Toolbox internal):	StartBatch	StartDocument	AddObject	AddFile	EndDocument	EndBatch
Variable's name	Variable's value					
signal	"StartBatch"	"StartDocument"	"AddObject"	"AddFile"	"EndDocument"	"EndBatch"
name	"StartBatch"	"StartDocument"	Document's name	Document's name	"EndDocument"	"EndBatch"
type	Batch type's name	Document type's name	Document type's name	Document type's name	Document type's name	Batch type's name
filename	NA	NA	NA	Source filename (with extension)	NA	NA
extension	NA	NA	NA	Source filename's extension (including	NA	NA
filepath	NA	NA	NA	Full path to the source file (incliding name and	NA	NA

3.1.3 Field references

Fields are internally stored as a collection of key/value pairs and may be referenced using the following expression:

fields["*<field label>*"]

where *<field label>* is the field label to be chosen among known field labels.

Tips:

- Remember that fields are not available at any time and must be referenced when relevant (e.g., document fields are not available when receiving the "StartBatch" signal. Referencing a document field in a text template – Text File rule – for the "StartBatch" event, will fail).
- Line item fields are only supported in Text File rule (see below). They should not be used elsewhere.

3.2 Connection

Configuring a connection is to provide a mandatory path (server) to an existing folder.

SERVER

The path to an existing folder.

Tips:

- The server expression must be a string literal.
- The provided path will be used as base path in rules configurations, unless the rules specifies its own path.

3.3 Ruleset

Ruleset are used to filter the input to which underlying rules will apply. Filtering is based on a type or a more elaborate condition.

Tip:

- IRISConnect Toolbox expects at least one rule must apply to any document file it receives. Consequently, when filtering rules through ruleset conditions, you should ensure that at least one of the conditions will verify for each expected document file.

TYPE

Type parameters may be used to filter signals and document files based on an expected batch or document type.

Tip:

- The suggested *<batch type>* or *<document type>* type expressions are respectively equivalent to the type.Equals("*<batch type>*") or type.Equals("*<document type>*") condition expressions. Consequently (as the type variable's value depends on the received signal or document file), they may not match, depending on the received signal or document file. E.g. <batch type> will never be true when receiving document's files - at this moment, the value of the type variable will be the document type's name. To filter document files based on the batch type they relate to, the fields["Batch.Type"].Equals("*<expected batch type>*") may be used as condition.

CONDITION

Condition allows to provide an elaborate condition.

Tips:

- A Condition expression must be a valid C# Boolean expression.
- The suggested type.Equals("*<batch type>*") or type.Equals("*<document type>*") condition expressions may not match, depending on the received signal or document file. E.g. type.Equals("*<batch type>*") will never be true when receiving document files - at this moment, the value of the type variable will be the document type's name. To filter document files based on the batch type they relate to, the fields["Batch.Type"].Equals("*<expected batch type>*") condition may be used.

3.4 Rules

3.4.1 Folder

Folder rule allows you to create a structured hierarchy of folders.

PATH

The path to the parent folder where to create the new folder. The path expression can designate an existing folder or not, or can be empty.

Tips:

- When a folder already exists, IRISConnect ignores the folder creation.
- When you add a Folder rule as the first rule of the configuration, and you leave the path empty, then IRISConnect creates the folder in the root path defined at connection level.
- When you add a Folder rule next to another Folder rule, and leave the path empty, then IRISConnect creates the new folder inside the folder defined in the previous Rule.

NAME

The name of the folder to create.

Tip:

- To use a fixed name, enter the required name between double quotation marks. E.g. "Test Folder".

3.4.2 File

By means of the File rule, IRISConnect will copy document files to the target path.

PATH

The path where to copy the document file(s).

Tips:

- When you add a File rule as the first rule of the configuration, and you leave the path empty, then IRISConnect copies the document file(s) in the root path defined at connection level.
- When you add a File rule next to a Folder rule, and you leave the path empty, then IRISConnect copies the document file(s) to the folder defined in the Folder rule.

NAME

The name of the destination file.

Tips:

- To add the extension to the name, add "+extension" behind name: name+extension.
- To use a fixed name, enter the required name between double quotation marks. E.g. "Test File". In this case the file will always be named "Test File".
- To use the name of the source file, combined with the extension, enter filename as Name.

3.4.3 Text File

This type of rule is used to interpret the signals coming from IRISPowerscan 11, and to create structured text file(s).

PATH

The path where to create the text file(s).

Tips:

- When a file already exists, IRISConnect ignores the file creation.
- When you add a Text File rule as the first rule of the configuration, and you leave the path empty, then IRISConnect creates the text file(s) in the root path defined at connection level.
- When you add a Text File rule next to a Folder rule, and you leave the path empty, then IRISConnect creates the text file(s) to the folder defined in the Folder rule.

NAME

The name of the text file.

Tips:

- To add the extension to the name, add "+extension" behind the name.
- To use a fixed name, enter the required name between double quotation marks. E.g. "Test File". In this case the file will always be named "Test File".
- To use the name of the source file, combined with the extension, enter filename as Name.

TEMPLATE

The structure of the text file(s) is defined by the template entered in the Text File rule's configuration dialog (Fields tab).

The text template may include:

- Literal text
- Any C# expression enclosed by <ic:value> and </ic:value>, including:
  - Known variables
  - Known fields references
- Line items sections enclosed by <ic:lineitems> and </ic:lineitems>

Expressions delimited by the <ic:value> tag will be evaluated at runtime and replaced by their result as string in the text file.

The content of the <ic:lineitems> tag will be evaluated for each received line item.

Note:

- The <ic:lineitems> tag is the only place where line item fields are supported.

Text File rule configuration dialog allows to enter a text template for each of the following signals:

- StartBatch
- StartDocument
- AddObject
- AddFile
- EndDocument
- EndBatch

Evaluation of text templates occurs when receiving the corresponding signal from IRISPowerscan 11:

- StartBatch is evaluated when receiving the “StartBatch” signal.
- StartDocument is evaluated when receiving the “StartDocument” signal.
- AddObject is evaluated when receiving a document file.
- AddFile is evaluated when receiving a document file.
- EndDocument is evaluated when receiving the “EndDocument” signal.
- EndBatch is evaluated when receiving the “EndBatch” signal.

Tip:

- Line item fields will only be available on the AddObject or AddFile events.

3.4.4 Command

A Command rule is used to call an external application.

PATH

The path to the application folder.

NAME

Enter the name of the application file between double quotation marks. For instance "Notepad.exe".

SYNCHRONOUS

The Synchronous option determines whether IRISConnect waits for the results of the called application.

When checking Synchronous, IRISConnect waits for the results. When unchecked, IRISConnect runs in asynchronous mode, meaning it doesn't wait for the results.

PARAMETERS

Parameters expected by the application must be entered in the Parameter(s) section.

Tips:

- The <ic:value> tag can also be used to pass parameters whose value will be evaluated at runtime.
- If you use multiple parameters they must be separated by a slash "/".

3.4.5 Connector

The Connector rule is used to call other IRISConnect connectors from the Toolbox.

In this case the input data received by IRISConnect Toolbox are transmitted to another connector.

PATH

The path to the connector’s configuration file.

4. Configuration examples

The following examples illustrate the usage of IRISConnect Toolbox using Text file rules to generate text/xml files.

The first one is a generic example, highlighting the usage of variables and field references in the text template.

The second one is a “real life example” based on the Invoice Multi sample project, highlighting the usage of C# expression and line item fields in a Text File rule configuration.

4.1.1 Generic example

1. Create a new C:\Temp folder (if it doesn’t already exist)
2. Use the project wizard to create a new project with default properties, choosing:
   a. “Folder” as input source
   b. “IRISConnect” as output destination
3. In the project designer, change:
   a. The document type name to “MyDocument”
   b. The batch type name to “MyBatch”
4. Copy/Paste the following text in a “Toolbox.xml” file that must be placed into the project directory.

```
<?xml version="1.0" encoding="utf-8"?>
<config target="IRISConnect.ToolBox.dll">
  <connection name="(Default)" server="C:\Temp" password="3u8mBC1KMIu82vrW6A477w==">
    <ruleset name="(Default)" type="">
      <rule name="&amp;quot;signals.txt&amp;quot;" path="" type="signal" synchronous="False"
command="">
        <fragment label="StartBatch"><![CDATA[<batch>
       <variables>
              <signal><ic:value>signal</ic:value></signal>
              <name><ic:value>name</ic:value></name>
              <type><ic:value>type</ic:value></type>
       </variables>
       <fields>
              <type><ic:value>fields["Batch.Type"]</ic:value></type>
              <name><ic:value>fields["MyBatch.Name"]</ic:value></name>
              <field1><ic:value>fields["MyBatch.Field1"]</ic:value></field1>
              <field1><ic:value>fields["Field1"]</ic:value></field1>
       </fields>]]></fragment>
        <fragment label="StartDocument"><![CDATA[      <document>
              <variables>
                     <signal><ic:value>signal</ic:value></signal>
                     <name><ic:value>name</ic:value></name>
                     <type><ic:value>type</ic:value></type>
              </variables>
              <fields>
                     <type><ic:value>fields["Document.Type"]</ic:value></type>
```

```
                <name><ic:value>fields["MyDocument.Name"]</ic:value></name>
                <field1><ic:value>fields["MyDocument.Field1"]</ic:value></field1>
                <field1><ic:value>fields["Field1"]</ic:value></field1>
        </fields>]]></fragment>
 <fragment label="AddObject"><![CDATA[          <object>
                <variables>
                        <signal><ic:value>signal</ic:value></signal>
                        <name><ic:value>name</ic:value></name>
                        <type><ic:value>type</ic:value></type>
                </variables>
                <fields>
                        <batch>

<type><ic:value>fields["Batch.Type"]</ic:value></type>

<name><ic:value>fields["MyBatch.Name"]</ic:value></name>

<field1><ic:value>fields["MyBatch.Field1"]</ic:value></field1>

<field1><ic:value>fields["Field1"]</ic:value></field1>

<field1><ic:value>fields["BatchType.Field1"]</ic:value></field1>
                                <document>

<type><ic:value>fields["Document.Type"]</ic:value></type>

<name><ic:value>fields["MyDocument.Name"]</ic:value></name>

<field1><ic:value>fields["MyDocument.Field1"]</ic:value></field1>

<field1><ic:value>fields["Field1"]</ic:value></field1>

<field1><ic:value>fields["DocumentType.Field1"]</ic:value></field1>
                                </document>
                        </batch>
                </fields>
        </object>]]></fragment>
 <fragment label="AddFile"><![CDATA[            <file>
                <variables>
                        <signal><ic:value>signal</ic:value></signal>
                        <name><ic:value>name</ic:value></name>
                        <type><ic:value>type</ic:value></type>
                        <filename><ic:value>filename</ic:value></filename>
                        <extension><ic:value>extension</ic:value></extension>
                        <filepath><ic:value>filepath</ic:value></filepath>
                </variables>
                <fields>
                        <batch>

<type><ic:value>fields["Batch.Type"]</ic:value></type>

<name><ic:value>fields["MyBatch.Name"]</ic:value></name>
```

```
        <field1><ic:value>fields["MyBatch.Field1"]</ic:value></field1>

        <field1><ic:value>fields["Field1"]</ic:value></field1>

        <field1><ic:value>fields["BatchType.Field1"]</ic:value></field1>
                                <document>

        <type><ic:value>fields["Document.Type"]</ic:value></type>

        <name><ic:value>fields["MyDocument.Name"]</ic:value></name>

        <field1><ic:value>fields["MyDocument.Field1"]</ic:value></field1>

        <field1><ic:value>fields["Field1"]</ic:value></field1>

        <field1><ic:value>fields["DocumentType.Field1"]</ic:value></field1>
                                </document>
                            </batch>
                        </fields>
                    </file>]]></fragment>
         <fragment label="EndDocument"><![CDATA[       <variables>
                        <signal><ic:value>signal</ic:value></signal>
                        <name><ic:value>name</ic:value></name>
                        <type><ic:value>type</ic:value></type>
                    </variables>
        </document>]]></fragment>
         <fragment label="EndBatch"><![CDATA[    <variables>
                    <signal><ic:value>signal</ic:value></signal>
                    <name><ic:value>name</ic:value></name>
                    <type><ic:value>type</ic:value></type>
        </variables>
</batch>]]></fragment>
      </rule>
    </ruleset>
  </connection>
  <fragment label="StartBatch" />
  <fragment label="StartDocument" />
  <fragment label="AddObject" />
  <fragment label="AddFile" />
  <fragment label="EndDocument" />
  <fragment label="EndBatch" />
      </config>
```

5. Select “Toolbox.xml” in the IRISConnect output destination configuration combo.
6. Go to N avigation mode and scan a batch.
7. Type any a value in the Batch and Document fields
8. Process the batch. A signal.txt will be created in C:\Temp with a content similar to the following:

   Note: if the file already exists, the new content will be appended to the existing content.

```
<batch>
```

```
<variables>
	<signal>StartBatch</signal>
	<name>StartBatch</name>
	<type>MyBatch</type>
</variables>
<fields>
	<type>MyBatch</type>
	<name>MyBatch 1</name>
	<field1>Foo</field1>
	<field1>Foo</field1>
</fields>
<document>
	<variables>
		<signal>StartDocument</signal>
		<name>StartDocument</name>
		<type>MyDocument</type>
	</variables>
	<fields>
		<type>MyDocument</type>
		<name>MyDocument 1</name>
		<field1>Bar</field1>
		<field1>Bar</field1>
	</fields>
	<object>
		<variables>
			<signal>AddObject</signal>
			<name>MyDocument 1</name>
			<type>MyDocument</type>
		</variables>
		<fields>
			<batch>
				<type>MyBatch</type>
				<name>MyBatch 1</name>
				<field1>Foo</field1>
				<field1>Foo</field1>
				<field1>Foo</field1>
				<document>
					<type>MyDocument</type>
					<name>MyDocument 1</name>
					<field1>Bar</field1>
					<field1>Foo</field1>
					<field1>Bar</field1>
				</document>
			</batch>
		</fields>
	</object>
	<file>
		<variables>
			<signal>AddFile</signal>
			<name>MyDocument 1</name>
			<type>MyDocument</type>
			<filename>MyDocument 1.pdf</filename>
```

```
                        <extension>.pdf</extension>

        <filepath>C:\Users\...\AppData\Roaming\IPSx\Temp\Output_3be35436-f99c-48d0-
90b9-236dcf5ec24f\MyDocument 1.pdf</filepath>
                    </variables>
                    <fields>
                        <batch>
                            <type>MyBatch</type>
                            <name>MyBatch 1</name>
                            <field1>Foo</field1>
                            <field1>Foo</field1>
                            <field1>Foo</field1>
                            <document>
                                <type>MyDocument</type>
                                <name>MyDocument 1</name>
                                <field1>Bar</field1>
                                <field1>Foo</field1>
                                <field1>Bar</field1>
                            </document>
                        </batch>
                    </fields>
                </file>
                <variables>
                    <signal>EndDocument</signal>
                    <name>EndDocument</name>
                    <type>MyDocument</type>
                </variables>
            </document>
            <variables>
                <signal>EndBatch</signal>
                <name>EndBatch</name>
                <type>MyBatch</type>
            </variables>
</batch>
```

4.1.2 Real life example (this example does not apply to IPS11)

1. Ensure IRISPowerscan 10 is installed with invoice Add-On.
2. Open the “Invoice Multi” sample project.
3. In the project designer:
    a. Add an output and select IRISConnect Toolbox as Destination.
    b. (optional) Uncheck the existing outputs.
4. Copy/Paste the following text in a “Toolbox.xml” file that must be placed into the project directory:

```
<?xml version="1.0" encoding="utf-8"?>
<config target="IRISConnect.ToolBox.dll">
    <connection name="(Default)" server="c:\" password="3u8mBC1KMIu82vrW6A477w==">
        <ruleset name="(Default)" type="">
            <rule name="fields[&amp;quot;Batch.Name&amp;quot;] + &amp;quot;.xml&amp;quot;"
path="System.IO.Path.Combine(System.Environment.GetFolderPath(Environment.SpecialFolde
```

```
r.MyDocuments), @&amp;quot;Invoices&amp;quot;, fields[&amp;quot;Batch.Name&amp;quot;])" type="signal"
synchronous="False" command="">
                <fragment label="StartBatch"><![CDATA[<Invoices>]]></fragment>
                <fragment label="StartDocument" />
                <fragment label="AddObject"><![CDATA[ <Invoice
ref="<ic:value>fields["Document.InvoiceNumber"] + ".pdf"</ic:value>">

       <CreditorId><ic:value>fields["Document.CreditorID"]</ic:value></CreditorId>

       <CreditorName><ic:value>fields["Document.Creditor"]</ic:value></CreditorName>

       <CompanyCode><ic:value>fields["Document.CompanyCode"]</ic:value></CompanyCode>

       <InvoiceDate><ic:value>fields["Document.InvoiceDate"]</ic:value></InvoiceDate>

       <InvoiceNumber><ic:value>fields["Document.InvoiceNumber"]</ic:value></InvoiceNu
mber>

       <GrossAmount><ic:value>fields["Document.GrossAmount"]</ic:value></GrossAmount>
              <VATAmount><ic:value>fields["Document.VATAmount"]</ic:value></VATAmount>
              <VATRate><ic:value>fields["Document.VATRate"]</ic:value></VATRate>
              <NetAmount><ic:value>fields["Document.NetAmount"]</ic:value></NetAmount>
              <Items><ic:lineitems>
                     <Item>

       <Number><ic:value>fields["Document.LineItems.Number"]</ic:value></Number>

       <Quantity><ic:value>fields["Document.LineItems.Quantity"]</ic:value></Quantity>

       <UnitPrice><ic:value>fields["Document.LineItems.UnitPrice"]</ic:value></UnitPri
ce>

       <TotalAmount><ic:value>fields["Document.LineItems.TotalAmount"]</ic:value></Tot
alAmount>
                     </Item></ic:lineitems>
              </Items>
       </Invoice>]]></fragment>
                <fragment label="AddFile" />
                <fragment label="EndDocument" />
                <fragment label="EndBatch"><![CDATA[</Invoices>]]></fragment>
            </rule>
        </ruleset>
    </connection>
    <type name="Batch" code="default">
        <field label="ScanDate" />
        <field label="DefaultCountry" />
        <field label="ProcessInfo" />
        <field label="ClientName" />
        <field label="UserLanguage" />
    </type>
    <type name="Document" code="default">
        <field label="Creditor" />
```

```
        <field label="CreditorID" />
        <field label="CreditorCountry" />
        <field label="CompanyCode" />
        <field label="CreditorSalesTaxId" />
        <field label="SpecificCountryCode" />
        <field label="InvoiceDate" />
        <field label="PaymentTarget1Date" />
        <field label="DocumentType" />
        <field label="InvoiceNumber" />
        <field label="OrderNumber" />
        <field label="ServiceDate" />
        <field label="ValueOfGoods" />
        <field label="NetAmount" />
        <field label="VATAmount" />
        <field label="VATRate" />
        <field label="NetAmount2" />
        <field label="VATAmount2" />
        <field label="VATRate2" />
        <field label="GrossAmount" />
        <field label="Currency1" />
        <field label="Discount" />
        <field label="ExtraCharges" />
        <field label="ExtraCharges1" />
        <field label="ExtraCharges2" />
        <field label="ExtraCharges3" />
        <field label="Search1" />
        <field label="Search2" />
        <field label="LineItems" />
    </type>
    <fragment label="StartBatch" />
    <fragment label="StartDocument" />
    <fragment label="AddObject" />
    <fragment label="AddFile" />
    <fragment label="EndDocument" />
    <fragment label="EndBatch" />
</config>
```

5. Select “Toolbox.xml” in the IRISConnect output destination configuration combo.
6. Go to Navigation mode and scan a batch.
7. Process and verify the batch.
8. Reopen and process the batch for export.
   a. A “<batch name>” folder (e.g., “Batch M-1”) will be created in "C:\Users\...\Documents\Invoices\"
   b. A “<batch name>.xml” file (e.g., “Batch M-1.xml”) will be created in the previous folder with a content similar to the following:

```
<Invoices>
      <Invoice ref="2004.224.pdf">
            <CreditorId>96005</CreditorId>
```

```
<CreditorName>Bacchus</CreditorName>
<CompanyCode>1010</CompanyCode>
<InvoiceDate>2004-09-20</InvoiceDate>
<InvoiceNumber>2004.224</InvoiceNumber>
<GrossAmount>698.51</GrossAmount>
<VATAmount>121.23</VATAmount>
<VATRate>21.00</VATRate>
<NetAmount>577.28</NetAmount>
<Items>
	<Item>
		<Number>1</Number>
		<Quantity>12</Quantity>
		<UnitPrice>20.00</UnitPrice>
		<TotalAmount>240.00</TotalAmount>
	</Item>
	<Item>
		<Number>2</Number>
		<Quantity>12</Quantity>
		<UnitPrice>6.40</UnitPrice>
		<TotalAmount>76.80</TotalAmount>
	</Item>
	<Item>
		<Number>3</Number>
		<Quantity>12</Quantity>
		<UnitPrice>9.80</UnitPrice>
		<TotalAmount>117.60</TotalAmount>
	</Item>
	<Item>
		<Number>4</Number>
		<Quantity>12</Quantity>
		<UnitPrice>0.80</UnitPrice>
		<TotalAmount>9.60</TotalAmount>
	</Item>
	<Item>
		<Number>5</Number>
		<Quantity>12</Quantity>
		<UnitPrice>4.00</UnitPrice>
		<TotalAmount>48.00</TotalAmount>
	</Item>
	<Item>
		<Number>6</Number>
		<Quantity>12</Quantity>
		<UnitPrice>0.72</UnitPrice>
		<TotalAmount>8.64</TotalAmount>
	</Item>
	<Item>
		<Number>7</Number>
		<Quantity>3</Quantity>
		<UnitPrice>9.35</UnitPrice>
		<TotalAmount>28.05</TotalAmount>
	</Item>
	<Item>
```

```
                <Number>8</Number>
                <Quantity>2</Quantity>
                <UnitPrice>2.50</UnitPrice>
                <TotalAmount>5.00</TotalAmount>
            </Item>
            <Item>
                <Number>9</Number>
                <Quantity>6</Quantity>
                <UnitPrice>1.60</UnitPrice>
                <TotalAmount>9.60</TotalAmount>
            </Item>
            <Item>
                <Number>10</Number>
                <Quantity>6</Quantity>
                <UnitPrice>1.60</UnitPrice>
                <TotalAmount>9.60</TotalAmount>
            </Item>
            <Item>
                <Number>11</Number>
                <Quantity>3</Quantity>
                <UnitPrice>1.85</UnitPrice>
                <TotalAmount>5.55</TotalAmount>
            </Item>
            <Item>
                <Number>12</Number>
                <Quantity>3</Quantity>
                <UnitPrice>2.35</UnitPrice>
                <TotalAmount>7.05</TotalAmount>
            </Item>
            <Item>
                <Number>13</Number>
                <Quantity>1</Quantity>
                <UnitPrice>3.47</UnitPrice>
                <TotalAmount>3.47</TotalAmount>
            </Item>
            <Item>
                <Number>14</Number>
                <Quantity>2</Quantity>
                <UnitPrice>1.76</UnitPrice>
                <TotalAmount>3.52</TotalAmount>
            </Item>
            <Item>
                <Number>15</Number>
                <Quantity>6</Quantity>
                <UnitPrice>0.80</UnitPrice>
                <TotalAmount>4.80</TotalAmount>
            </Item>
        </Items>
    </Invoice>
    <Invoice ref="846221.pdf">
        <CreditorId>90001</CreditorId>
        <CreditorName>Comzu AG</CreditorName>
```

```
<CompanyCode>1001</CompanyCode>
<InvoiceDate>2009-04-14</InvoiceDate>
<InvoiceNumber>846221</InvoiceNumber>
<GrossAmount>5135.92</GrossAmount>
<VATAmount>820.02</VATAmount>
<VATRate>19.00</VATRate>
<NetAmount>4315.90</NetAmount>
<Items>
	<Item>
		<Number>1</Number>
		<Quantity>2</Quantity>
		<UnitPrice>84.43</UnitPrice>
		<TotalAmount>168.86</TotalAmount>
	</Item>
	<Item>
		<Number>2</Number>
		<Quantity>2</Quantity>
		<UnitPrice>13.33</UnitPrice>
		<TotalAmount>26.66</TotalAmount>
	</Item>
	<Item>
		<Number>3</Number>
		<Quantity>2</Quantity>
		<UnitPrice>12.00</UnitPrice>
		<TotalAmount>24.00</TotalAmount>
	</Item>
	<Item>
		<Number>4</Number>
		<Quantity>2</Quantity>
		<UnitPrice>188.41</UnitPrice>
		<TotalAmount>376.82</TotalAmount>
	</Item>
	<Item>
		<Number>5</Number>
		<Quantity>2</Quantity>
		<UnitPrice>183.08</UnitPrice>
		<TotalAmount>366.16</TotalAmount>
	</Item>
	<Item>
		<Number>6</Number>
		<Quantity>4</Quantity>
		<UnitPrice>51.55</UnitPrice>
		<TotalAmount>206.20</TotalAmount>
	</Item>
	<Item>
		<Number>7</Number>
		<Quantity>2</Quantity>
		<UnitPrice>82.65</UnitPrice>
		<TotalAmount>165.30</TotalAmount>
	</Item>
	<Item>
		<Number>8</Number>
```

```
        <Quantity>2</Quantity>
        <UnitPrice>131.53</UnitPrice>
        <TotalAmount>263.06</TotalAmount>
</Item>
<Item>
        <Number>9</Number>
        <Quantity>2</Quantity>
        <UnitPrice>52.44</UnitPrice>
        <TotalAmount>104.88</TotalAmount>
</Item>
<Item>
        <Number>10</Number>
        <Quantity>2</Quantity>
        <UnitPrice>16.00</UnitPrice>
        <TotalAmount>32.00</TotalAmount>
</Item>
<Item>
        <Number>11</Number>
        <Quantity>2</Quantity>
        <UnitPrice>354.60</UnitPrice>
        <TotalAmount>709.20</TotalAmount>
</Item>
<Item>
        <Number>12</Number>
        <Quantity>2</Quantity>
        <UnitPrice>44.98</UnitPrice>
        <TotalAmount>89.96</TotalAmount>
</Item>
<Item>
        <Number>13</Number>
        <Quantity>2</Quantity>
        <UnitPrice>16.00</UnitPrice>
        <TotalAmount>32.00</TotalAmount>
</Item>
<Item>
        <Number>14</Number>
        <Quantity>2</Quantity>
        <UnitPrice>39.99</UnitPrice>
        <TotalAmount>79.98</TotalAmount>
</Item>
<Item>
        <Number>15</Number>
        <Quantity>2</Quantity>
        <UnitPrice>176.86</UnitPrice>
        <TotalAmount>353.72</TotalAmount>
</Item>
<Item>
        <Number>16</Number>
        <Quantity>2</Quantity>
        <UnitPrice>22.22</UnitPrice>
        <TotalAmount>44.44</TotalAmount>
</Item>
```

```
                        <Item>
                                <Number>17</Number>
                                <Quantity>3</Quantity>
                                <UnitPrice>403.48</UnitPrice>
                                <TotalAmount>1210.44</TotalAmount>
                        </Item>
                        <Item>
                                <Number>18</Number>
                                <Quantity>2</Quantity>
                                <UnitPrice>31.11</UnitPrice>
                                <TotalAmount>62.22</TotalAmount>
                        </Item>
                </Items>
        </Invoice>
</Invoices>
```

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