



Get started with OIOUBL

Microsoft Dynamics C5 2012
and 2010

June 2014

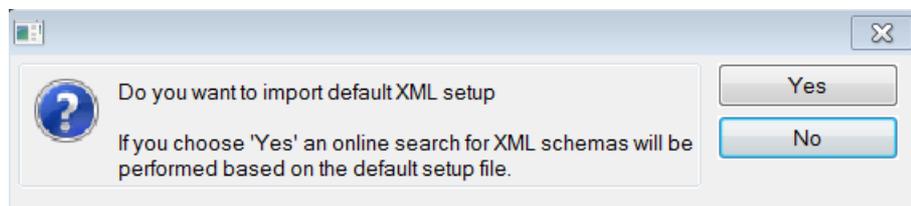
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Setup of OIOUBL

1. XML schema

Go to General/Table/XML/XML Schema where the setup and mapping of existing schemas is performed. The following dialog appears and if "Yes" is selected XSD files will automatically be downloaded from <http://rep.oio.dk/ubl/xml/schemas/2.0/maindoc/>.



The following setup is then performed automatically:

Two default paths are set up in the **XML Setup**: the path to the folder with the downloaded schema files and the path to the folder where all incoming XML document files must be placed in order to be imported.

Both folders are created in the directory where C5 is installed. The folder with the schema files is by default named XSDCache. The folder for incoming XML files is by default named <Database extension>_XMLFileImport, e.g. DAT_XMLFileImport.

NB! Only Supervisor can perform this setup and internet access is required during the downloading of schemas.

In version 2012 it is also possible to specify a path to a folder where all outgoing XML files of all types must be collected together, for example, in connection with a centralized dispatch of files. This path can be specified in the **Path for XML outbox** field. If this path is specified in the **XML Setup** window a copy of all outgoing XML files that are generated in the current data file will be saved in the specified folder.

2. Schematron and Presentation Style sheet files

Presentation style sheet files that are used to display the contents of XML files in a more user-friendly layout are not included in the Schema download, but they can be downloaded manually from:

<http://digitaliser.dk/resource/2455502>

Create a new sub folder "Stylesheets" in the folder with XML Schema files, download the zip file to this folder and unpack the zip file in the folder

After the style sheets have been downloaded you will need to link them to appropriate schemas (see the table below). This is done manually by specifying an appropriate style sheet file for a Schema in the field Presentation style sheet.

Schematron files that are used to validate the contents of XML files are not included in the Schema download either; they can be downloaded manually from:

<http://digitaliser.dk/resource/2500534>

Create a new sub folder "Schematron " in the folder with XML Schema files, download the zip file to this folder and unpack the zip file in the folder

After the Schematron files have been downloaded you will need to link them to appropriate schemas (see the table below). This is done manually by specifying an appropriate Schematron file for a Schema in the field Schematron file.

The table below shows the correlation between Schemas, Presentation style sheets and Schematron files.

Schema Id	Presentation Style sheet	Schematron file
CustomerReminderUBL	ReminderHTML.xsl	OIOUBL_Reminder_Schematron.xsl
Proj_CreditNoteUBL	CreditNoteHTML.xsl	OIOUBL_CreditNote_Schematron.xsl
Proj_InvoiceUBL	InvoiceHTML.xsl	OIOUBL_Invoice_Schematron.xsl
Proj_OrdConfirm	OrderResponseHTML.xsl	OIOUBL_OrderResponse_Schematron.xsl
Purch_In_CredNoteUBL	CreditNoteHTML.xsl	OIOUBL_CreditNote_Schematron.xsl
Purch_In_InvoiceUBL	InvoiceHTML.xsl	OIOUBL_Invoice_Schematron.xsl
Purch_In_OrdConfUBL	OrderResponseHTML.xsl	OIOUBL_OrderResponse_Schematron.xsl
Purch_OrderReqUBL	OrderHTML.xsl	OIOUBL_Order_schematron.xsl
Sales_CreditNoteUBL	CreditNoteHTML.xsl	OIOUBL_CreditNote_Schematron.xsl
Sales_InvoiceUBL	InvoiceHTML.xsl	OIOUBL_Invoice_Schematron.xsl
Sales_In_PurchReqUBL	OrderHTML.xsl	OIOUBL_Order_schematron.xsl
Sales_OrdConfirmUBL	OrderResponseHTML.xsl	OIOUBL_OrderResponse_Schematron.xsl

NB - We recommend that you regularly check the above mentioned webpages for newly released files

3. Setting up XML conversion

XML conversion may be necessary if some values in Microsoft Dynamics C5 do not comply with OIOUBL requirements or if the company's base data entries (e.g. item numbers) are different from those of the customers' or suppliers'.

XML conversion can be set up under General/Table/XML/XML conversion.

To specify what type of value must be converted - first select the table and then the field. Then specify Conversion values using the menu item "Values".

Conversion of unit codes is necessary if the unit codes used in the C5 database do not comply with OIOUBL requirements.

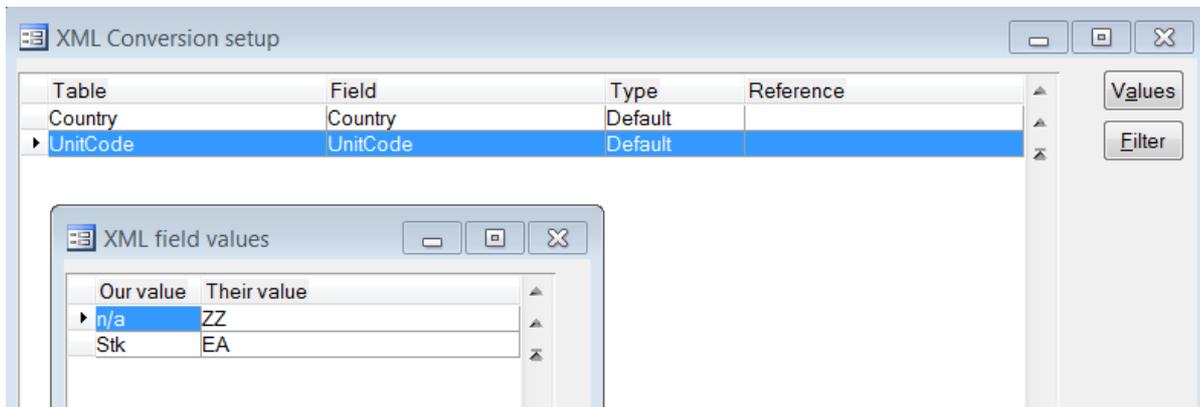
Example

The code "Pcs" must be converted to "EA". A blank unit code must be converted to "ZZ".

Select: Table=UnitCode, Field=UnitCode

Click the Values button

Enter: Our value=Stk, Their value=EA



NB - UnitCode must contain codes that comply with OIOUBL requirements.

Country codes

The country codes used in C5 are defined in the Country codes table. The country codes that are used with OIOUBL must comply with ISO standard.

From September 15, 2013 the validation of the country codes in OIOUBL files has been made mandatory. This is part of the common European standardization of electronic documents.

This means that it is no longer possible to send electronic documents with an incorrect country code. The XML documents with incorrect country codes will thus be rejected after September 15, 2013.

The country code for Denmark is DK, SE for Sweden, NO for Norway etc. - see current Country codes under General/Table/Country codes. If a country code specified in the field Co (CountryVatCodes) complies with ISO standard, no country code conversion is needed.

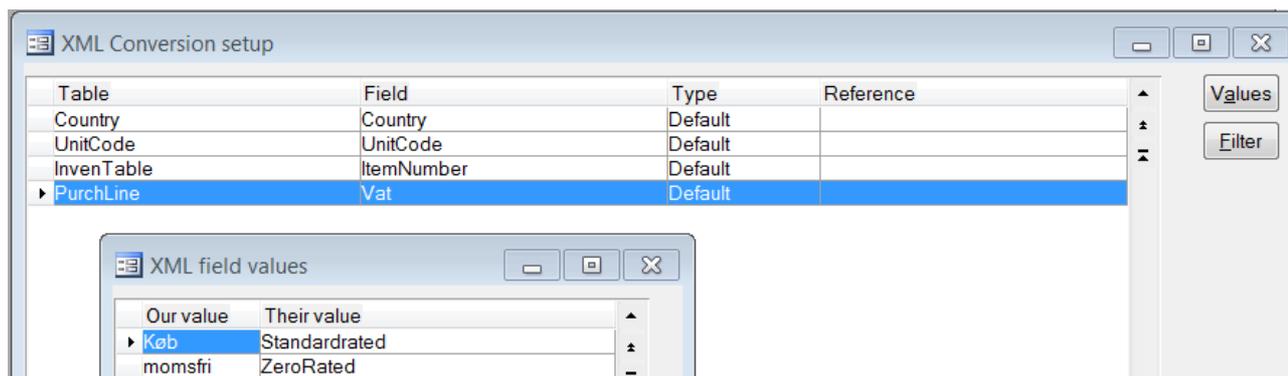
Conversion of VAT codes

The mapping is by default set up to import VAT codes from XML file to purchase order lines. This is necessary in case a purchase order contains lines with mixed VAT rates.

To import a purchase invoice correctly, the following conversion has to be set up:

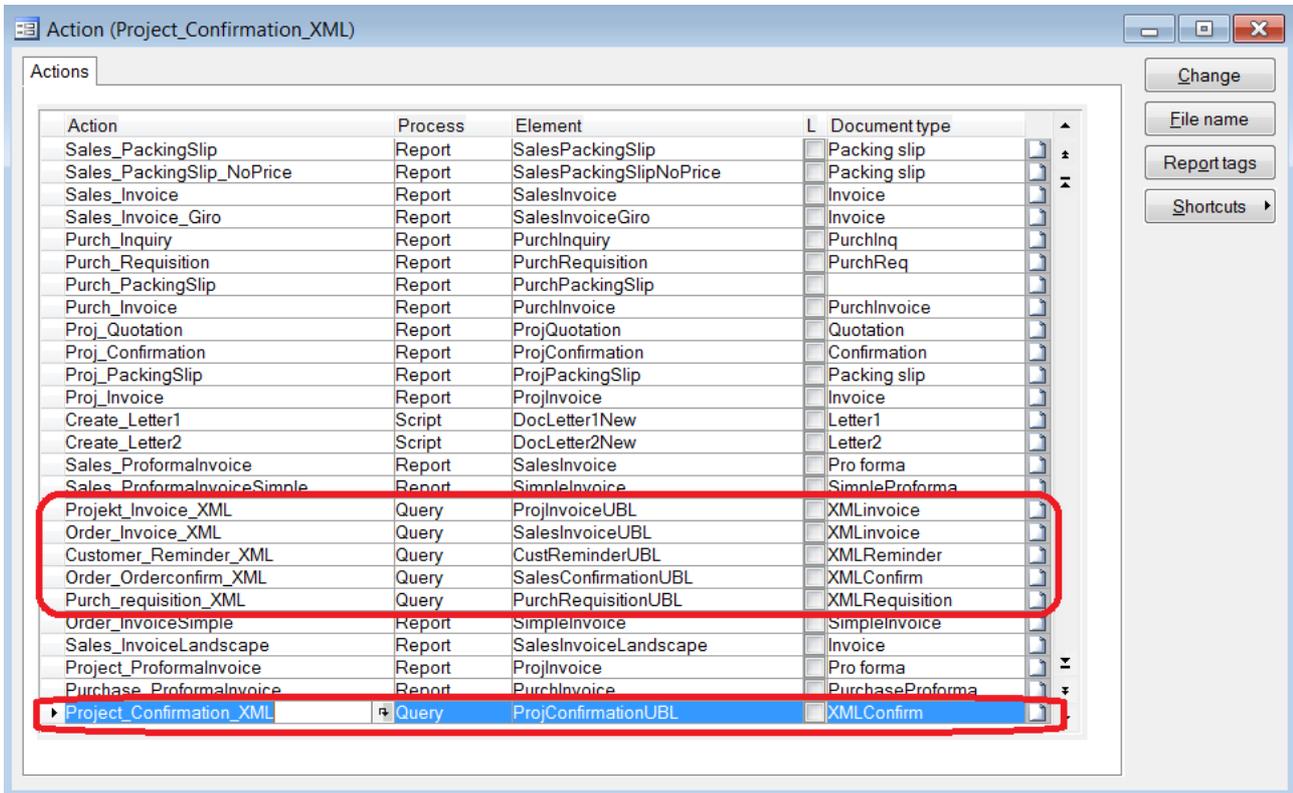
Our value is set to a VAT code using 25% from the VAT code table and

Our value is set to a VAT code using 0% from the VAT code table

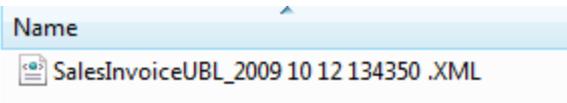


4. Setting up actions

Under General/Table/Actions the following new actions are created automatically. These actions are used when generating and saving outgoing XML documents:



By default any outgoing XML document will be saved in a subfolder to the company's document management folder named after the company extension. If, for example, a DAT Company uses the Danish functionality and the default document management folder, all OIOUBL invoices will be saved in: \DocMgmt\DAT\XMLFaktura. Default XML file names are composed as follows: <Name of the script that has generated the file>_<Date as YYYY MM DD and Time as number of seconds elapsed since midnight when the document was created>, e.g.



Note that in 2012 HF001 and newer versions it is possible to set up a central location to place outgoing XML files. This can be specified under **General/Table/XML/XML Schema** under the **XML Setup** button in the **Path for XML outbox** field.

5. Naming documents

The composition of file names can be redefined using the local menu item **File name** in **General/Table/Actions**. The structure of the file name is defined using field names in the file. You can also specify whether the date and time should be included in the file name.

NB! If the date and time is omitted the document will be overwritten when it is reprinted

It is important to ensure that the values of the selected fields together produce a unique file name for a document so that overwriting of other documents with the same file name is avoided.

The setup for OIOUBL Sales invoice shown above and based on Customer invoice journal table will produce the following file name: <XXX> <Invoice account> <Order number> <Invoice number> <YYY>, e.g. XXX 9999991 670 89 YYY.Xml

Note The setup of file prefix, postfix and extension is only available in version 2012 SP1 and later versions. Omit doc. name is introduced in version 2012 SP2.

6. Setting up action lists for customers and vendors

Applying OIOUBL format to outgoing business documents such as invoices, reminders, orders, confirmations and purchase requisitions is controlled by action lists.

To add a new action to an action list select a system function that triggers the update of the required document and then select an action that is associated with printing of the document. The action lists can be set up globally for all customers and all vendors or individually for each particular customer/vendor.

If, for example, a customer must receive invoices in OIOUBL format, a new Order_Invoice_XML action for the SalesInvoice function must be added to the customer's action list. The individual action lists are set up in the customer or vendor table using menu item Setup/Action lists.

Function	Action	Di	L	O	Copy	Message	Document type	X
CustReminder	Customer_Reminder_XML	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			XMLReminder	<input type="checkbox"/>
SalesConfirmation	Order_Orderconfirm_XML	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			XMLConfirm	<input type="checkbox"/>
SalesInvoice	Order_Invoice_XML	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			XMLInvoice	<input type="checkbox"/>
ProjConfirmation	Project_Confirmation_XML	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			XMLConfirm	<input type="checkbox"/>
ProjInvoice	Projekt_Invoice_XML	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			XMLInvoice	<input type="checkbox"/>

Function	Action	Di	L	O	Copy	Message	Document type	X
PurchRequisition	Purch_requisition_XML	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			XMLRequisition	<input type="checkbox"/>

It is recommended to set up both XML actions as well as normal printouts to be able to choose whether to print both a file version and a report version or only print the report version

7. Specifying EAN numbers for customers and vendors

The OIOUBL format requires unique identification of the document's sender and recipient. EAN number is one of the accepted identification formats.

To set up an EAN number for a customer or a vendor you must create an EAN address in the customer's or vendor's address table: Customer/Table/ (Menu) Setup/Addresses.

It is possible to create multiple EAN addresses in the address table, however only the EAN number that is specified in the field EAN Number in the Customer table on the Setup tab will be used as the default EAN Address for the customer.

Invoice	
EAN	570xxxxxxxxxx
A/c dimension	

8. Specifying VAT numbers and Vat number types for customers and vendors

VAT number specification and VAT number types are mandatory when using OIOUBL. VAT numbers must be specified in numeric format. All characters for country identification must be omitted.

VAT number types are maintained in General/Table/Country codes (Menu) UBL, VAT number type.

VAT number is specified in the field VAT No in the customer or vendor table on the Setup tab

VAT No.	11111111
VAT number type	DK:CVR
XML import	<input checked="" type="checkbox"/>

If the company does not use an EAN number, it is possible to use the VAT number and VAT number type for sending and receiving OIOUBL documents.

(VAT number type is introduced in version 2012 SP1 HF3 and 2010 SP2 HF1)

9. Specify which customers and vendors may send OIOUBL documents to your company

In order to be able to receive and import OIOUBL documents from a particular customer or a vendor, the customer or the vendor must be marked as a valid XML sender.

VAT No.	11111111
VAT number type	DK:CVR
XML import	<input checked="" type="checkbox"/>

Approve a customer or vendor as a valid XML sender by setting the check mark in the customer's or vendor's XML import field. As soon as a customer or a vendor has been approved it will be possible to import incoming OIOUBL documents that are sent by the customer or the vendor.

10. Duties and VAT

The Duty code table is extended with 2 fields. Tax Category and Tax Scheme.

These codes refer to the following OIOUBL code lists: TaxCategoryID and TaxSchemeID. The codes are mandatory when invoicing duties using OIOUBL.

It is important that the Duty code text is also specified, as it required in the OIOUBL file.

Duty	Group	Text	Authority code	Account	Offset a/c
Afgift1	Emballage	Emballage afgift		2492	

SalesPurchas	Sign	Tax Category	Tax Scheme
Sales	Same	3100	16

The 2 similar new fields are also created in the VAT code table and can be filled out as follows:

VAT rate	TAX category	TAX Scheme
25%	StandardRated	63
0% (momsfri)	ZeroRated	63

If the fields are not set up, the default values for Tax Category and Tax Scheme (see example above) will automatically be used when using OIOUBL.

User guide

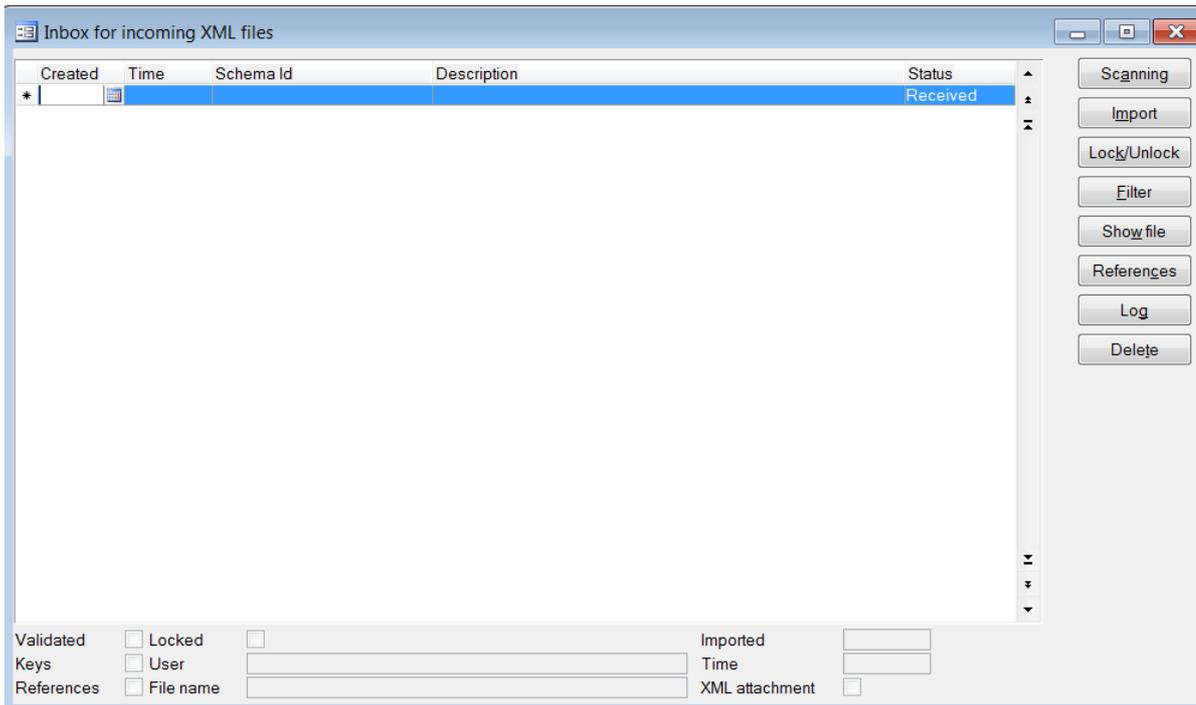
Export/dispatch

The export and dispatching of documents is performed in the same way as in previous releases of OIOUBL. That is, the file is created by printing the document in accordance with the document's action list, the document is placed in the default location according to its document type name which is set up under Actions or in the central folder specified in the Path for XML outbox field in the XML Setup window. C5 does not dispatch the document itself. This must be done using another application such as email.

Import/receive

Files to be imported must be manually placed in the folder which is set up under **General/Table/XML/XML Schema** under **XML Setup** in the **XML import path** field so that C5 can upload the files.

Loading and importing files is performed under the **General/Daily/XML inbox** menu item which is shown below. Here it is possible to import received XML documents.



When the **Scanning** button is activated the systems checks whether there are any files in the folder which is specified under **XML Setup/XML import path**

If an XML file is found it is registered in the XML inbox. The first time this scanning is performed the following three subfolders are created: Imported, Received and Rejected. After the scan the file is moved to the "Received" folder and the status in the XML journal is set to "Received".

C:\ProgramData\Microsoft Dynamics C5 2010 Data\DAT_XMLFILEIMPORT

Name	Type
IMPORTED	File folder
RECEIVED	File folder
REJECTED	File folder
PurchRequisitionUBL_2010 06 09 155510 .html	HTML Document

Using the Import button the file can be imported and a Purchase or an Order is created or updated. For more information see [UK_Factsheet_UserGuide_Microsoft_Dynamics_C5_OIOUBL](#)

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