

Microsoft Dynamics® C5

Getting started with
OIOUBL

For versions 2012 & 2010

TABLE OF CONTENTS

Introduction.....	3
Setting up OIOUBL	4
1. XML schema	4
2. Schematron and Presentation Stylesheet files	4
3. Setting up XML conversion	5
4. Setting up actions	6
5. Naming documents	7
6. Setting up action lists for customers and vendors	8
7. Specifying EAN numbers for customers and vendors.....	9
8. Specifying VAT numbers for customers and vendors.....	9
9. Specifying which customers and vendors can accept incoming OIOUBL documents.....	9
User Guide	10

INTRODUCTION

This document describes a simple way to setup OIOUBL, for a more detailed description of the functionality see: [UK_Factsheet_Microsoft_Dynamics_C5_2012_OIOUBL](#)

Microsoft Dynamics C5 provides a standard OIOUBL Setup which is based on OIOUBL schemas published by IT og Telestyrelsen. The default mapping between schemas and database in Microsoft Dynamics C5 is based on a standard business logic.

NB! Internet access is required when setting up OIOUBL files.

The instructions in this document are based on a default installation of Microsoft Dynamics C5 where the data folder is located in:

C:\ProgramData\Microsoft Dynamics C5 <version number> Data.

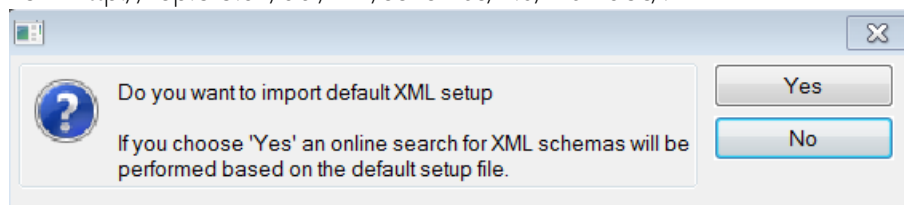
This document can also be used with the Microsoft Dynamics C5 2010 SP1 version, although there are some functionalities which are only available in the 2012 version.

SETTING UP 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 then happens:

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.

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 centralised 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 STYLESHEET 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://www.oioubl.info/oioubltools/da/oioubltools.html> - Stylingpakke (new)

Create a new sub folder "Stylesheets" in the folder with XML Schema files and download the whole 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://www.oioubl.info/oioubltools/da/oioubltools.html> - Validation package with testeksamples (new)

Create a new sub folder "Schematron " in the folder with XML Schema files and download the whole 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
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

3. SETTING UP XML CONVERSION

XML conversion may be necessary if some values in 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 customer or supplier.

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.

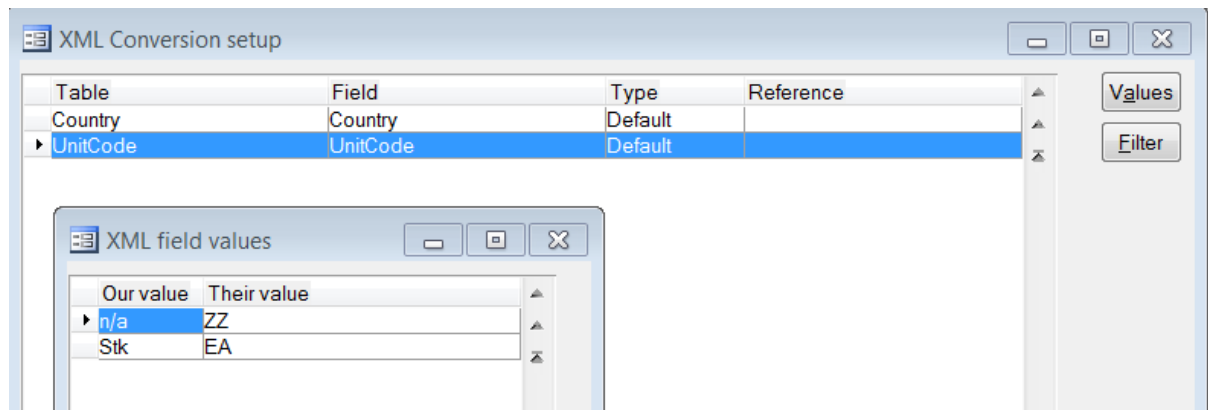
Example 1

If for example, the code "Pcs" is used for items, it will be necessary to convert this to "EA" as this is how they are specified in OIOUBL files. A blank unit code must be converted to "ZZ".

Enter: Table=UnitCode, Field=UnitCode

Click the Values button

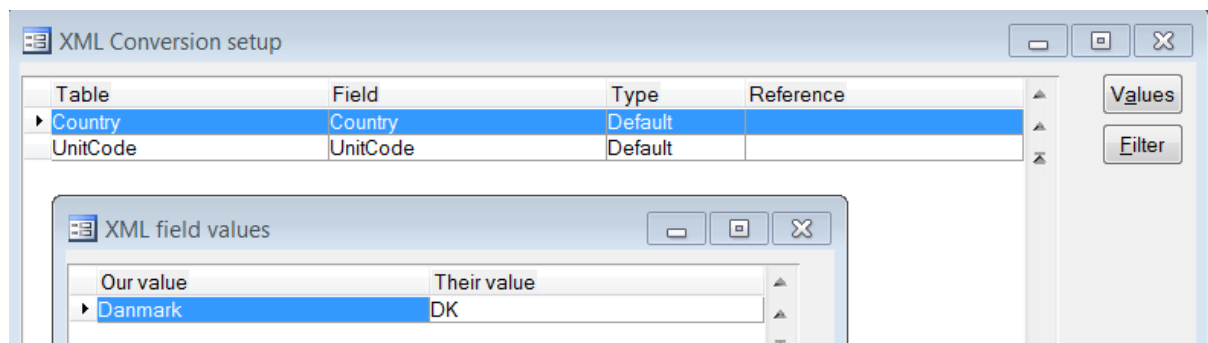
Enter: Our value=Stk, Their value=EA



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

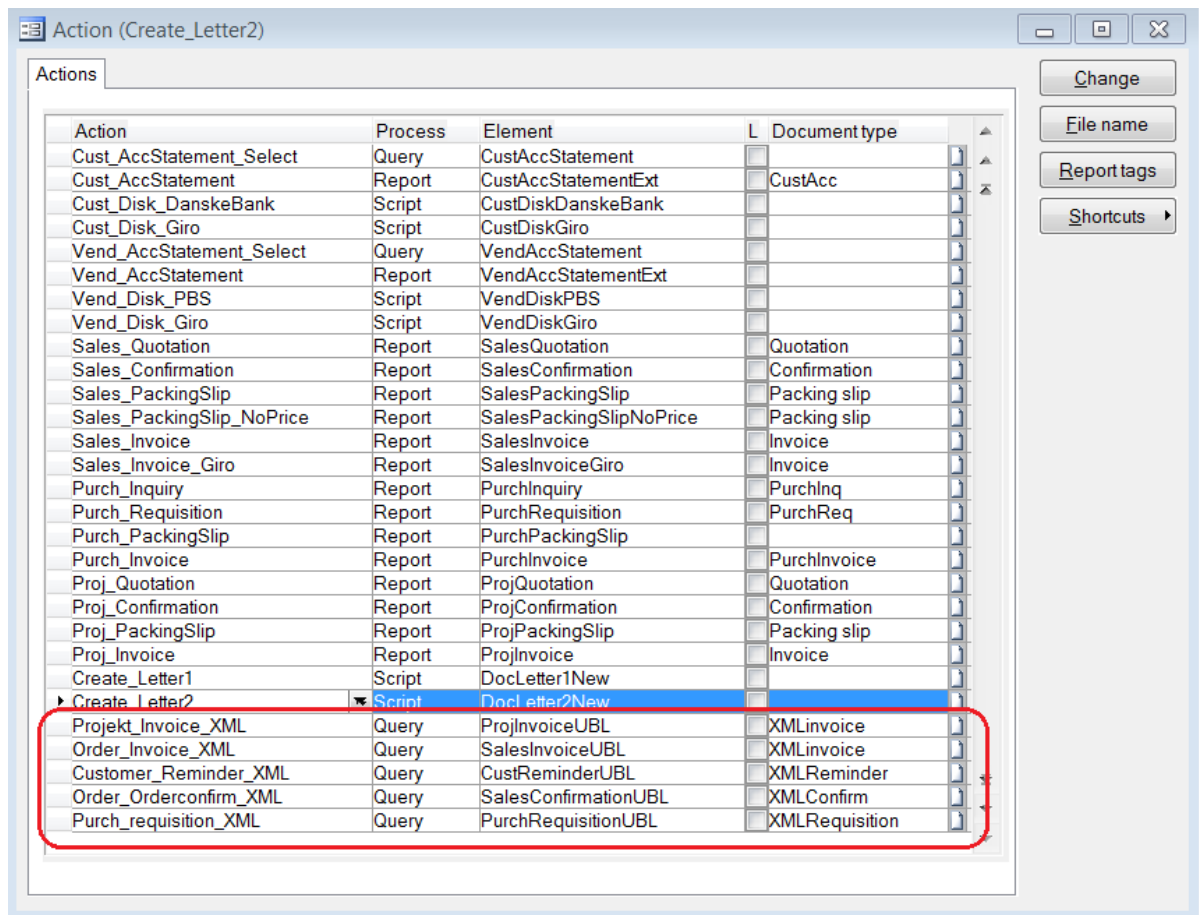
Example 2:

It is also necessary to convert Country names, for example, Denmark must be converted to DK

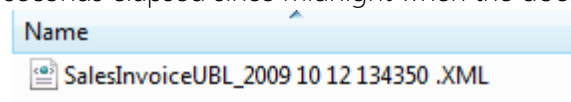


4. SETTING UP ACTIONS

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 of 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 from 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

Using the 'File name' button under **General/Table/Actions** it is possible to set up the composition of file names. 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 left out of 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.

File name (ProjInvoiceUBL)

File name

Pos. 1 InvoiceAccount

Pos. 2 Number

Pos. 3 InvoiceNumber

Leave out Date/time ☒

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

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 printing of the document and then select an action that is associated with printing the desired document.

If, for example, a customer should receive invoices in OIOUBL format, a new Order_Invoice_XML action for the SalesInvoice function must be added to the customer's action list.

For every customer and vendor that wants to receive documents in OIOUBL format, specify whether this action should be executed. This is set up in the customer or vendor table under Setup/Action lists.

Actions on customer (Account: 45823423)

Function	Action	L	O	Copy	Messag	Documenttype
CustReminder	Customer_Reminder_XML	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			XMLReminder
SalesConfirmation	Order_Orderconfirm_XML	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			XMLConfirm
SalesInvoice	Order_Invoice_XML	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			XMLInvoice
* ProjInvoice	Projekt_Invoice_XML	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			XMLInvoice

Actions on vendor (Account: 98992618)

Function	Action	L	O	Copy	Messag	Documenttype
* PurchRequisition	Purch_requisition_XML	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			XMLRequisition

It is recommended to set up both XML actions as well as default versions so that it is then possible to choose whether to print both a file version and a report version or only print the report version

See the newsletters which elaborate on this functionality in the following documents:

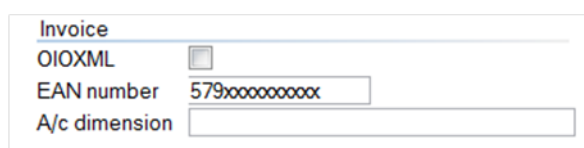
*UK_News_Microsoft_Dynamics_C5_2012_HF001.docx og
UK_News_Microsoft_Dynamics_C5_2010SP1_HF008.docx*

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.



The screenshot shows a form titled "Invoice" with the following fields:

OIOXML	<input type="checkbox"/>
EAN number	579xxxxxxxxx
A/c dimension	

If the "OIOXML" field is marked for the customer an OIOXML file is still created – see UK_Factsheet_Microsoft_Dynamics_C5_2012_OIOUBL

8. SPECIFYING VAT NUMBERS FOR CUSTOMERS AND VENDORS

VAT number specification is mandatory when using OIOUBL.

VAT numbers must be specified in numeric format. All characters for country identification must be omitted.

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



The screenshot shows a form with the following fields:

VAT No	11111111
XML import	<input checked="" type="checkbox"/>

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

9. SPECIFYING WHICH CUSTOMERS AND VENDORS CAN ACCEPT INCOMING OIOUBL DOCUMENTS

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.



The screenshot shows a form with the following fields:

VAT No	11111111
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.

USER GUIDE

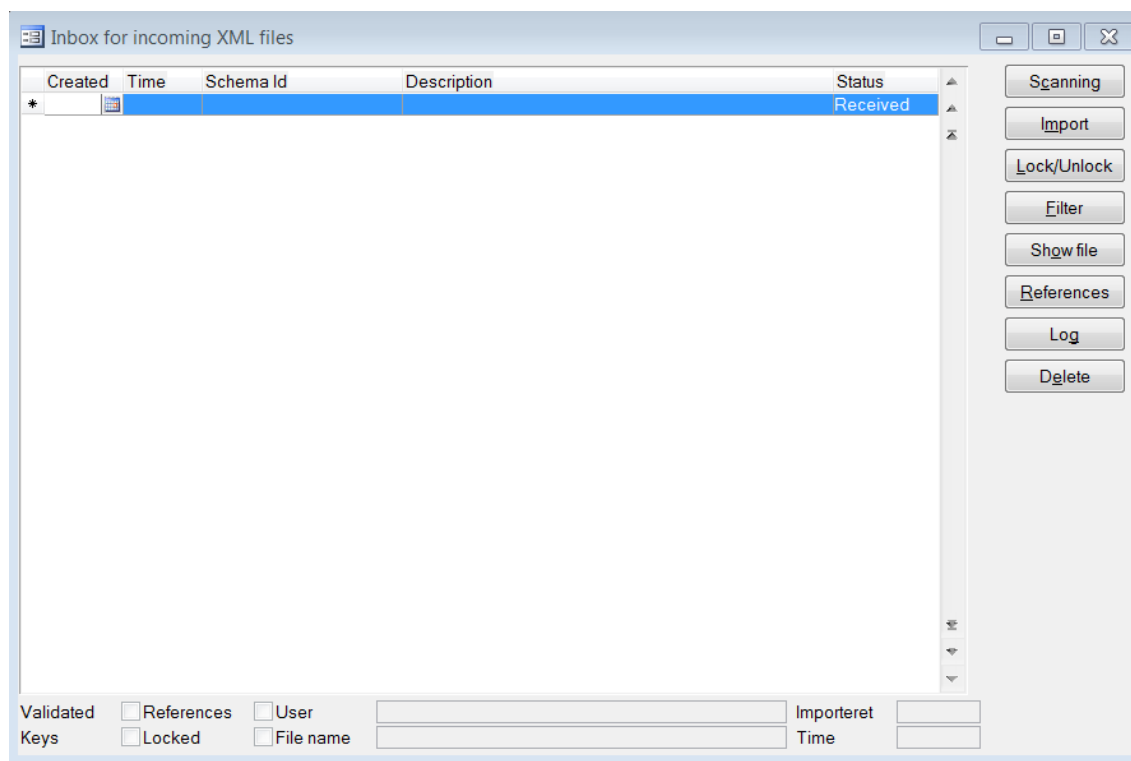
Export/dispatch

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 action list and is placed in a 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 was specified under **XML Setup/XML import path**

If an XML file is found it is placed in the XML journal

The first time this scanning is performed 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_Microsoft_Dynamics_C5_2012_OIOUBL](#)

Microsoft Dynamics is a line of integrated, adaptable business management solutions that enables you and your people to make business decisions with greater confidence. Microsoft Dynamics works like and with familiar Microsoft software, automating and streamlining financial, customer relationship and supply chain processes in a way that helps you drive business success.

U.S. and Canada Toll Free 1-888-477-7989

Worldwide +1-701-281-6500

www.microsoft.com/dynamics

The information contained in this document represents the current view of Microsoft Corporation on the issues discussed as of the date of publication. Because Microsoft must respond to changing market conditions, this document should not be interpreted to be a commitment on the part of Microsoft, and Microsoft cannot guarantee the accuracy of any information presented after the date of publication.

This White Paper is for informational purposes only. MICROSOFT MAKES NO WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, AS TO THE INFORMATION IN THIS DOCUMENT.

Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), or for any purpose, without the express written permission of Microsoft Corporation.

Microsoft may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement from Microsoft, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property.

© 2012 Microsoft Corporation. All rights reserved.

Microsoft, the Microsoft Dynamics Logo, BizTalk, FRx, Microsoft Dynamics, .NET Framework, SharePoint, Visual Basic, Visual C++, Visual SourceSafe, Visual Studio, Windows, and Windows Server are either registered trademarks or trademarks of Microsoft Corporation, FRx Software Corporation, or Microsoft Business Solutions ApS in the United States and/or other countries. Microsoft Business Solutions ApS and FRx Software Corporation are subsidiaries of Microsoft Corporation.

Microsoft®