

How to create a “XRechnung” in the Germany Localization

Typographic Conventions

Type Style	Description
<i>Example</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options. Textual cross-references to other documents.
Example	Emphasized words or expressions.
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
Example	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE	Keys on the keyboard, for example, F2 or ENTER.

Document History

Version	Date	Change
1.0	2021-02-11	First version

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1 Introduction

1.1 Legal background

XRechnung is an XML-based semantic data model¹, which is used to exchange invoices with public-sector customers in Germany and is increasingly establishing itself as a general standard for electronic invoices. The XRechnung standard was adopted in version 1.0 at the 23rd meeting of the IT Planning Council for the Federal and State Governments on June 22, 2017.² XRechnung specifies the currently valid version of the European standard for electronic invoicing EN 16931. Germany thus implemented Directive 2014/55/EU of the European Parliament and of the Council.³ Since April 2020, federal states and municipalities must be able to receive and process e-invoices, thereby bringing about a standardization of invoice exchange with public bodies.⁴

The XRechnung standard was developed as part of the specifications for electronic data exchange in public administration (XML in der öffentlichen Verwaltung (XÖV)). XRechnung 2.0.0 is the currently valid version. From July 1, 2021 on, version 2.0.1 of XRechnung will also be valid. All versions of XRechnung are compliant with the European standard EN 16931-1. The XRechnung standard has been operated by the Coordination Office for IT Standards (KoSIT) since January 1, 2019.

Note

The currently valid version of the XRechnung format is available on the [KoSIT](#) page.

Since November 27, 2020, XRechnung has been mandatory for all suppliers to federal public entities and must be submitted digitally to the "Zentrale Rechnungseingangsplattform des Bundes" ([ZRE](#)) or to the OZG-Konforme Rechnungseingangsplattform (OZG-RE) using the PEPPOL Infrastructure.

¹ <https://www.xoev.de/xrechnung-16828#BestandteileXRechnung>, 22.01.2021

² https://www.it-planungsrat.de/SharedDocs/Sitzungen/DE/2017/Sitzung_23.html?pos=3, 22.01.2021

³ <https://eur-lex.europa.eu/legal-content/DE/TXT/HTML/?uri=CELEX:32014L0055&from=DE>, 22.01.2021

⁴ <https://www.bundesdruckerei.de/de/Fokusthemen/Magazin/Fristen-und-Pflichten-Deutschland-stellt-auf-E-Rechnung-um>, 22.01.2021

Milestones of the electronic invoice in Germany

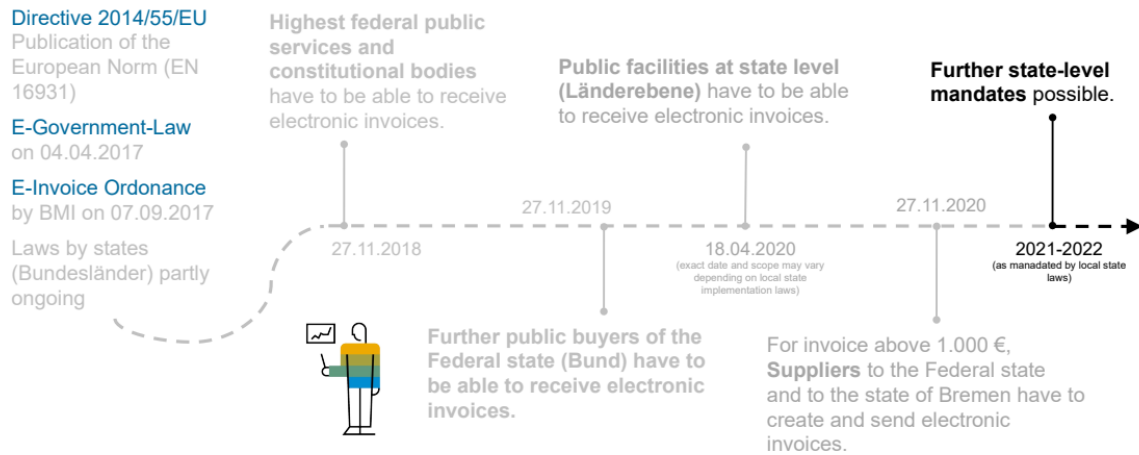


Figure 1: Milestones of the electronic invoice in Germany⁵

⁵ <https://blogs.sap.com/2020/04/14/xrechnung-zugferd-und-PEPPOL-alles-was-sie-uber-die-elektronische-rechnung-wissen-wollen-und-vielleicht-mehr/>, 22.01.2021

1.2 Mode of Transmission

After successful registration at ZRE, the invoice can be sent as an XML file by e-mail, uploaded via a web form, or the web service can be used via PEPPOL.

PEPPOL was launched as an international project with the aim of standardizing cross-border, electronically supported public procurement procedures within the European Union and has been in regular operation since 2012. Companies and public bodies can exchange business documents via the PEPPOL network. These can be for example XRechnung.⁶

Note

SAP is a registered Access Point in the PEPPOL Network. Click [here](#) to learn more or read SAP Note [2915144](#).

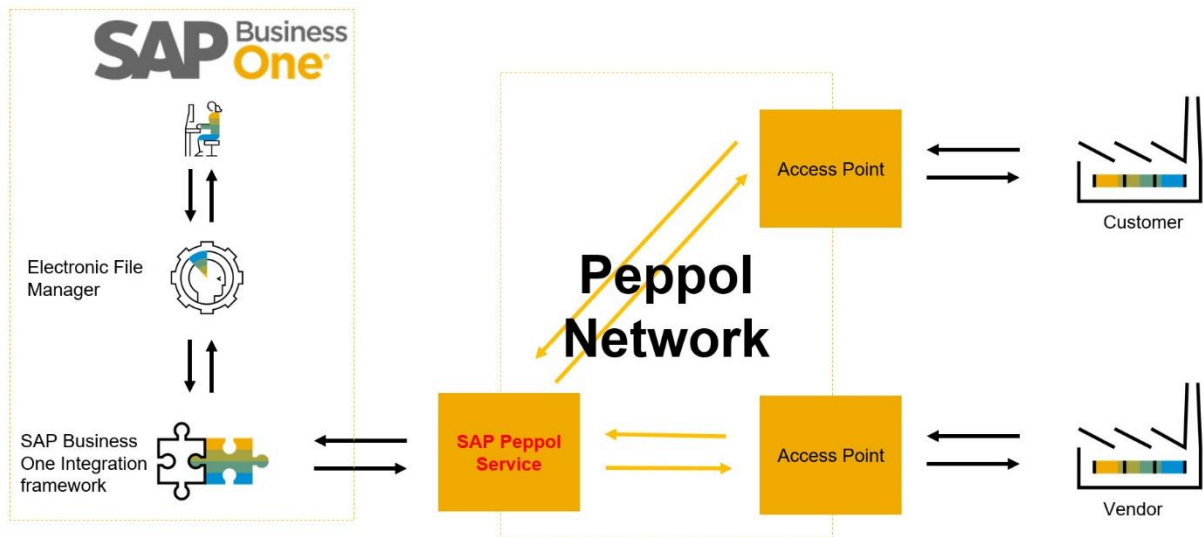


Figure 2: PEPPOL E-2-E SAP Business One Scenario

SAP Business One and SAP Business One, Version for SAP HANA, uses a combination of the following applications, as shown in Figure 1:

- SAP Business One Client
- Electronic File Manager (EFM)
- SAP Business One Integration Platform (B1i)
- SAP Access Point

⁶ https://www.e-rechnung.bremen.de/PEPPOL_fuer_das_handwerk-11856, 22.01.2021

PEPPOL builds on the standard setup of the SAP Business One infrastructure for processing electronic documents. For the standard setup and basic general information, see SAP Note [2880322](#) - Generic Web Service Enhancement in version 10.0.

Note

The XRechnung standard only formalizes the invoice itself (format, data structure and semantics), the XRechnung standard does not consider the transmission route of the invoice. To enable all public-sector customers as invoice recipients to receive invoices via at least one standardized channel, the [IT Planning Council](#) has decided to connect to the PEPPOL infrastructure as a standardized secure web service. It obliges the federal and state governments to offer at least PEPPOL by the end of the implementation period of Directive 2014/55/EU if they provide a web service for the delivery of electronic invoices.⁷

⁷ https://www.xoev.de/xrechnung/PEPPOL_zum_versand_und_empfang_von_rechnungen-16855, 22.01.2021

2 Settings in SAP Business One

The following describes which settings you need to make within SAP Business One and SAP Business One, version for SAP HANA, as well as its components to create and transfer the XRechnung.

2.1 Activation Electronic Document Service

A new service is required for processing and communicating electronic documents and reports for SAP Business One and SAP Business One, version for SAP HANA - see SAP Note [2952067](#).

The new Electronic Document Service replaces some existing methods for handling electronic documents and reporting. The Electronic Document Service improves the management of electronic marketing documents processed to and from SAP Business One. In certain scenarios, an Electronic Document Service is required.

The Electronic Document Service was originally made available in the Czech localization of SAP Business One and SAP Business One, version for SAP HANA, as described in SAP Note [2915221](#).

2.2 Setup Document Numbering

Choose *Administration* -> *System Initialization* -> *Document Numbering* and select the corresponding line of the document level by double-clicking.

Document Numbering - Setup

Document	Default Series	First No.	Next No.	Last No.	Change Menu Names
Business Partners - Customer	Manuell				
Business Partners - Vendor	Manuell				
Items	Manuell				
Resources	Manuell				
A/R Invoices	Primary	1	999	4999	
A/R Credit Memos	Primary	1	17		
Deliveries	Primary	1	920		
Return Request	Primary	1	3		
Returns	Primary	1	19		
Sales Orders	Primary	1	1835		
A/P Invoices	Primary	1	647		
A/P Credit Memos	Primary	1	12		
Goods Receipt PO	Primary	1	474		
Goods Return Request	Primary	1	1		
Goods Return	Primary	1	10		
Purchase Orders	Primary	1	460		
Sales Quotations	Hardware	1	348	9999	
Incoming Payments	Primary	1	206		
Deposits	Primary	1	11		
Journal Entries	Primary	1	3933		
Outgoing Payments	Primary	1	201		
Goods Receipt	Primary	1	147		
Goods Issue	Primary	1	15		
Inventory Transfer Request	Primary	1	2		
Inventory Transfers	Primary	1	2		
Landed Costs	Primary	1	3		
Inventory Revaluation	Primary	1	3		
Service Call	Primary	1	46		

OK Cancel

Series - A/R Invoices - Setup

#	Name	Number			String		Remarks	Group	Period Ind.	Cancellation	Lock	Digital Series
		First No.	Next No.	Last No.	Prefix	Suffix						
1	Primary	1	999	4999			1	2021				
2	eDoc	5000	5003	10000			1	2021				✓

Display Series Linked to Selected Period(s) Indicator: All Periods

OK Cancel Set as Default

1 Note

Please note that you must first select the PEPPOL checkbox "Enable Protocol" in the document settings, as described in section 2.3, before you can create the series of digital document numbers.

If the electronic receipt is not activated, the warning message "Invalid next serial number" appears.

2.3 Import of PEPPOL relevant data from MS Excel

1. Prepare the required values in MS Excel

The numerical code in the first column (A) of the Excel file identifies the type of PEPPOL code (Code List). Make sure your Business Interoperability Specification (BIS) Code List Type selection matches the codes in column A.

- Code "1" for Order Type documents
- Code "2" for Delivery Type documents
- Code "3" for Invoice Type documents
- Code "4" for Credit Memo Type documents
- Code "5" for Standard Item Type Identification
- Code "6" for Item Commodity Classification Codes

2. Choose *Administration* -> *Data Import/Export*-> *Data Import* -> *Import from Excel* in SAP Business One

3. Choose *PEPPOL BIS Codes* as Data Type to Import

Import from Excel

Data Type to Import: PEPPOL BIS Codes

File to Import: [Empty]

Map the File Columns to the Object

Column in File	Field in Object
A	PEPPOL BIS Codes
B	
C	
D	
E	
F	
G	
H	
I	
J	
K	
L	
M	
N	
O	
P	

Import Method

☒ Add New Records and Update Existing Records

☐ Add New Records Without Updating Existing Records

☐ Update Existing Records Without Adding New Records

Mapping

Use Data Template [Empty]

Save as Template

Clear Mapping

Import Cancel

4. Choose the Excel File from Step 1

Press on the symbol next to the field *File to Import*

5. Select the appropriate object fields from the drop-down list

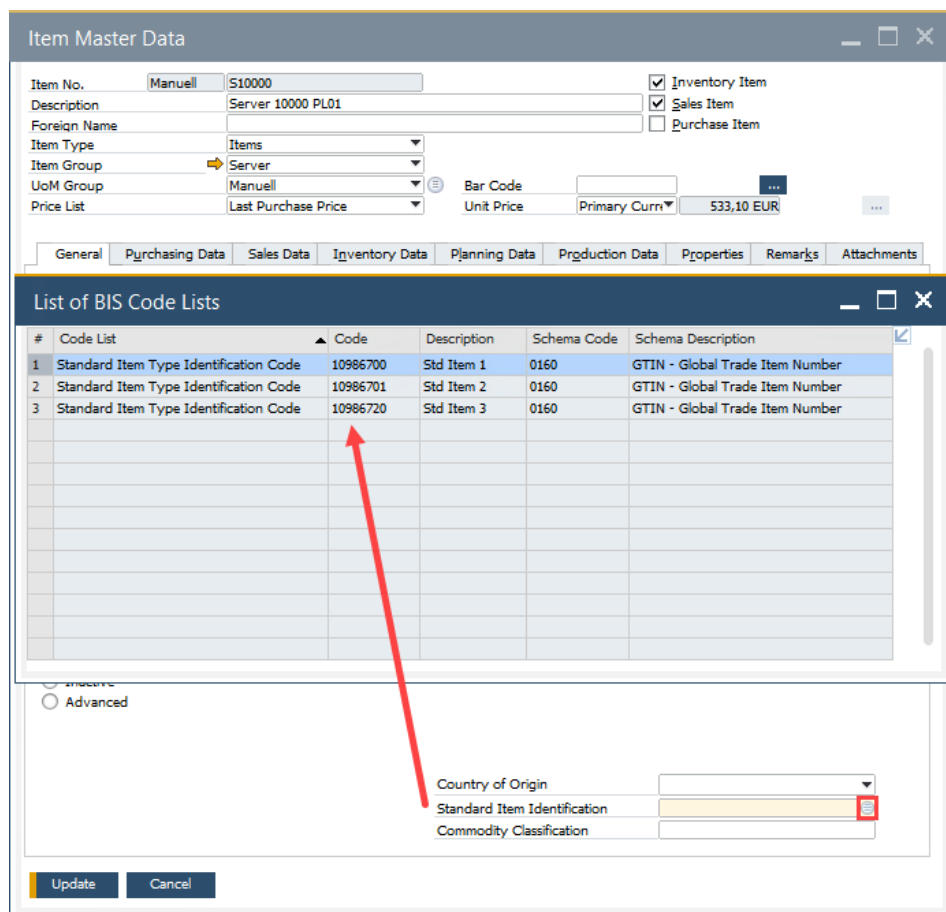
6. There are three import methods available for selection

- *Add New Records and Update Existing Records*
- *Add New Records Without Updating Existing Records*
- *Update Existing Records Without Adding New Records*

7. Save and use the defined setup as a template for further use

Note

As soon as the codes and other relevant fields have been imported into OUNCL, the values are visible in the relevant code tables.



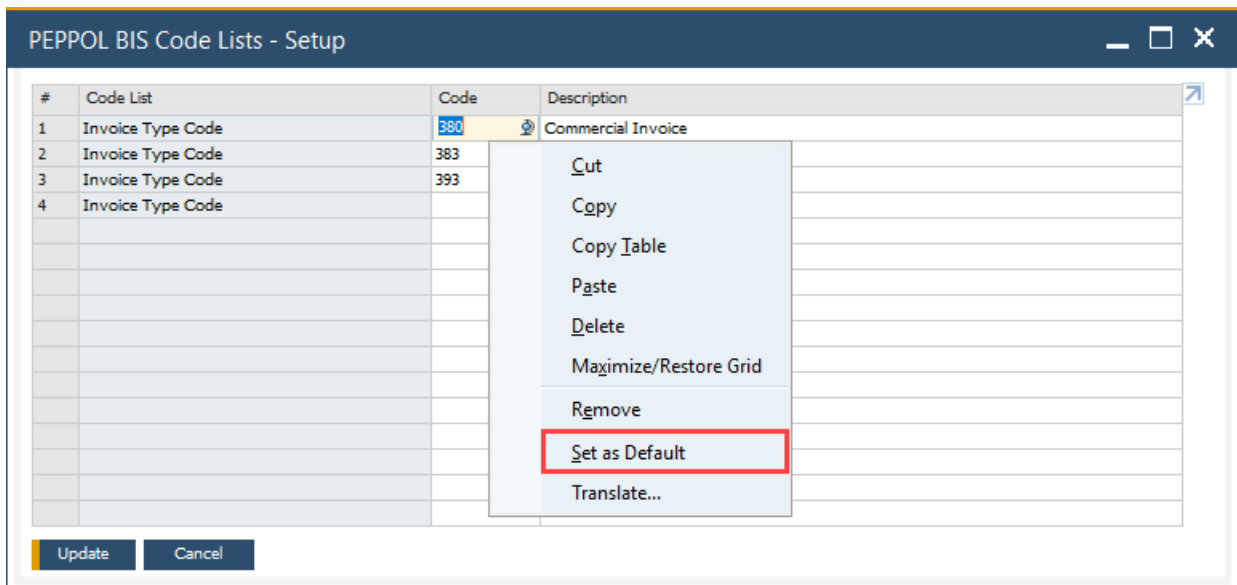
The screenshot shows the SAP Item Master Data window with the 'Inventory Data' tab selected. The 'List of BIS Code Lists' table is displayed, showing three rows of data. A red arrow points from the 'Code' column of the first row to the 'Country of Origin' field in the 'Advanced' section below the table.

#	Code List	Code	Description	Schema Code	Schema Description
1	Standard Item Type Identification Code	10986700	Std Item 1	0160	GTIN - Global Trade Item Number
2	Standard Item Type Identification Code	10986701	Std Item 2	0160	GTIN - Global Trade Item Number
3	Standard Item Type Identification Code	10986720	Std Item 3	0160	GTIN - Global Trade Item Number

Country of Origin:
Standard Item Identification:
Commodity Classification:

Update Cancel

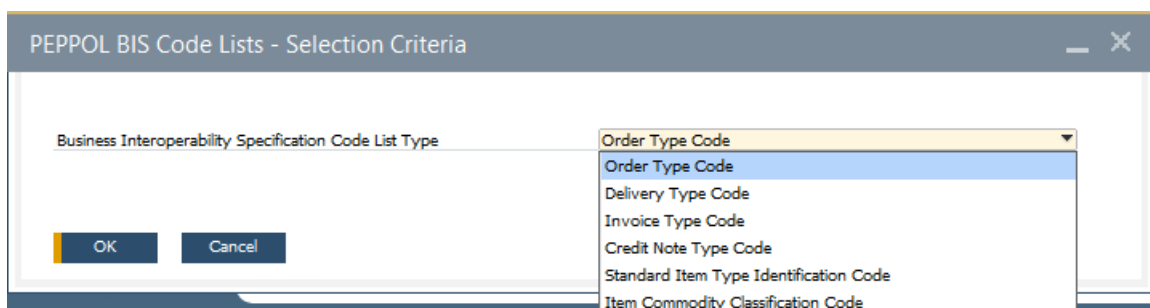
Set a default type for the electronic document, by right-clicking in the Code field and selecting *Set as Default*.



i Note

Alternatively, you can maintain the table entries manually.

Administration -> Setup -> Electronic Documents -> PEPPOL BIS Code Lists



2.4 Generic scenario for PEPPOL

i Note

In order to use PEPPOL as a transmission protocol, you need to have a Participant ID and your Company Certificate (in a *.pfx or *.p12 format).

1. Choose *Administration* -> *System Initialization* -> *Document Settings* -> *Electronic Documents*

SAP S/4HANA Administration

- Administration
 - Choose Company
 - Web Client
 - Exchange Rates and Indexes
 - System Initialization
 - Company Details
 - General Settings
 - Posting Periods
 - Authorizations
 - Document Numbering
 - Document Settings
 - Print Preferences
 - Menu Structure
 - Menu Alias for Searching
 - E-Mail Settings
 - Opening Balances
 - Implementation Center
 - Tooltip Preview
 - Setup

Document Settings

General | Per Document | **Electronic Documents**

Generic eDoc Protocol

Enable Protocol	<input type="checkbox"/>
B1 Server URL	HTTPS://rdp.btx.only.sap:8443
Web Service Password	
Default eDoc Generation Type	Not Relevant
Processing Target	
EDS Export Base Path	c:\export

Mapping Formats

Documents Mapping Determination	Double-click to open
Web Service Format	
User Query Category	

Sender Details

Sender Name	Larissa Fricke
Sender E-Mail	Larissa.Fricke@sap.com

User Notifications

Notification by System Alert	<input checked="" type="checkbox"/>
Notification by E-Mail	<input checked="" type="checkbox"/>
Keep Datasource File	<input checked="" type="checkbox"/>

PEPPOL

Enable Protocol	<input checked="" type="checkbox"/>
PEPPOL VAT Structure	9930
Participant ID	DEB1TEST
B1 Server URL	HTTPS://rdp.btx.only.sap:8443
Web Service Password	
Certificate	c:\Users\larissaf\Documents\certificates\PEPPOLCert.pem
Default eDoc Generation Type	Generate
Processing Target	Electronic Document Service v1
EDS Export Base Path	c:\export

Mapping Formats

Documents Mapping Determination	Double-click to open
Web Service Format	eDoc PEPPOL - WS Parameters (System)
User Query Category	

Provider

Provider	XML file
Access Point URL	https://www.peppol.eu/peppol/central/index.html
User Name	
User Password	

Sender Details

Sender Name	Larissa Fricke
Sender E-Mail	Larissa.Fricke@sap.com

User Notifications

Notification by System Alert	<input type="checkbox"/>
Notification by E-Mail	<input checked="" type="checkbox"/>
Keep Datasource File	<input checked="" type="checkbox"/>

2. Enable the PEPPOL Protocol

PEPPOL

Enable Protocol ☒

3. Provide your *PEPPOL VAT Structure*

PEPPOL VAT Structure 9930

i Note

The PEPPOL VAT Structure for Germany is 9930

4. Provide your *Participant ID*

Participant ID	DEB1TEST
----------------	----------

5. Provide your *B1i Server URL*

BTJ Server URL	https://help.bti.com/eng/0443
----------------	-------------------------------

6. Provide your *Web Service Password*

Web Service Password |

7. Provide your *Certificate*

Certificate | 

8. Select a *Default eDoc Generation Type*

Default eDoc Generation Type | Generate ▼

9. Select a *Processing Target*

Processing Target | Electronic Document Service v1 ▼

10. Provide an *EDS Export Base Path*

EDS Export Base Path | c:\export

11. Choose a *Documents Mapping Determination*

Documents Mapping Determination | Double-click to open

12. Select a *Web Service Format*

Web Service Format | eDoc PEPPOL - WS Parameters (System) ▼

13. Select an *User Query Category*

User Query Category |

14. Select a *Provider*

Provider | XML file ▼

15. Provide an *Access Point URL*

Access Point URL | <https://190002.hosiem.hsdlp.eu/1/hana.ordermand.at>

16. Provide a *User Name*

User Name |

17. Provide a *User Password*

User Password |

18. Provide the *Sender Name*

Sender Name | Larissa Proke

19. Provide the *Sender E-Mail*

Sender E-Mail | Larissa.Proke@sup.com

20. Choose if you want to receive a *Notification by System Alert* or not

Notification by System Alert ☐

21. Choose if you want to receive a *Notification by E-Mail* or not

Notification by E-Mail ☒

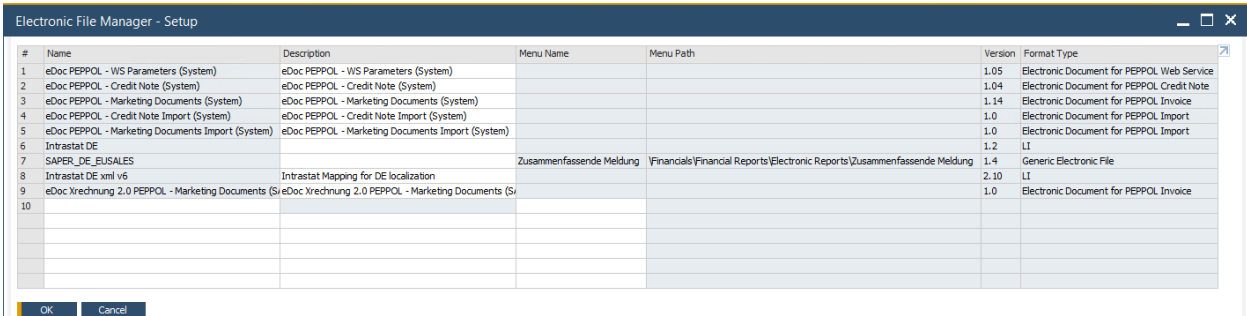
22. Choose if you want to *Keep Datasource File* or not

Keep Datasource File ☒

2.5 Import Wizard for Electronic Documents

For further information on how to activate the Import Wizard for Electronic Documents visit SAP Note [2915186](#).

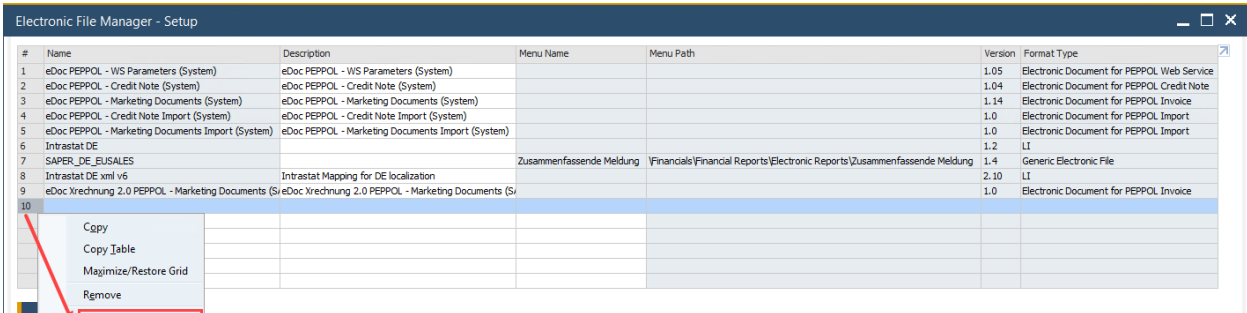
Choose *Administration* -> *Setup* -> *General* -> *Electronic File Manager*



#	Name	Description	Menu Name	Menu Path	Version	Format Type
1	eDoc PEPPOL - WS Parameters (System)	eDoc PEPPOL - WS Parameters (System)			1.05	Electronic Document for PEPPOL Web Service
2	eDoc PEPPOL - Credit Note (System)	eDoc PEPPOL - Credit Note (System)			1.04	Electronic Document for PEPPOL Credit Note
3	eDoc PEPPOL - Marketing Documents (System)	eDoc PEPPOL - Marketing Documents (System)			1.14	Electronic Document for PEPPOL Invoice
4	eDoc PEPPOL - Credit Note Import (System)	eDoc PEPPOL - Credit Note Import (System)			1.0	Electronic Document for PEPPOL Import
5	eDoc PEPPOL - Marketing Documents Import (System)	eDoc PEPPOL - Marketing Documents Import (System)			1.0	Electronic Document for PEPPOL Import
6	Intrastat DE				1.2	LI
7	SAPER_DE_EUSALES		Zusammenfassende Meldung	Financials\Financial Reports\Electronic Reports\Zusammenfassende Meldung	1.4	Generic Electronic File
8	Intrastat DE xml v6	Intrastat Mapping for DE localization			2.10	LI
9	eDoc Xrechnung 2.0 PEPPOL - Marketing Documents (Si)	eDoc Xrechnung 2.0 PEPPOL - Marketing Documents (Si)			1.0	Electronic Document for PEPPOL Invoice
10						

Select Upload via a right-click on the context menu in the first free line within the Electronic File Manager (EFM) window to upload the EFM file for the currently valid XRechnung format.

In SAP Note [2957995](#) you can download the currently valid XRechnung format.



#	Name	Description	Menu Name	Menu Path	Version	Format Type
1	eDoc PEPPOL - WS Parameters (System)	eDoc PEPPOL - WS Parameters (System)			1.05	Electronic Document for PEPPOL Web Service
2	eDoc PEPPOL - Credit Note (System)	eDoc PEPPOL - Credit Note (System)			1.04	Electronic Document for PEPPOL Credit Note
3	eDoc PEPPOL - Marketing Documents (System)	eDoc PEPPOL - Marketing Documents (System)			1.14	Electronic Document for PEPPOL Invoice
4	eDoc PEPPOL - Credit Note Import (System)	eDoc PEPPOL - Credit Note Import (System)			1.0	Electronic Document for PEPPOL Import
5	eDoc PEPPOL - Marketing Documents Import (System)	eDoc PEPPOL - Marketing Documents Import (System)			1.0	Electronic Document for PEPPOL Import
6	Intrastat DE				1.2	LI
7	SAPER_DE_EUSALES		Zusammenfassende Meldung	Financials\Financial Reports\Electronic Reports\Zusammenfassende Meldung	1.4	Generic Electronic File
8	Intrastat DE xml v6	Intrastat Mapping for DE localization			2.10	LI
9	eDoc Xrechnung 2.0 PEPPOL - Marketing Documents (Si)	eDoc Xrechnung 2.0 PEPPOL - Marketing Documents (Si)			1.0	Electronic Document for PEPPOL Invoice
10						

Copy

Copy Table

Maximize/Restore Grid

Remove

Upload

As a result, you can from now use on the chosen format in the EFM to generate a XRechnung.

3 Relevant master data for XRechnung

3.1 Item Master Data

The screenshot shows the 'Item Master Data' dialog box in SAP. The 'General' tab is selected. The 'Item No.' is 'S10000' and the 'Description' is 'Server 10000 PL01'. The 'Item Type' is 'Items' and the 'Item Group' is 'Server'. The 'UoM Group' is 'Manuell' and the 'Price List' is 'Basis Preisliste'. The 'Unit Price' is '625,00 EUR'. The 'Inventory Item' checkbox is checked. The 'Sales Item' checkbox is checked. The 'Purchase Item' checkbox is unchecked. The 'Service Attributes' section shows 'Warranty Template' as 'Silber Garantie'. The 'Serial and Batch Numbers' section shows 'Manage Item by' as 'Serial Numbers' and 'Management Method' as 'On Every Transaction'. The 'Issue Primarily By' is 'Serial and Batch Numbers'. The 'Active' radio button is selected. The 'Country of Origin', 'Standard Item Identification', and 'Commodity Classification' fields are highlighted with a red box.

Please provide a *Country of Origin*, a *Standard Item Identification* and a *Commodity Classification* in the item master data.

3.2 Business Partner Master Data

Business Partner Master Data

Code: Manuell, V70000, Vendor
Name: VAN PLC
Foreign Name:
Group: Manufacturing
Currency: Euro
Federal Tax ID: ...

Account Balance: -1.475,600
Goods Receipt POs: -1.428,000
Purchase Orders: -1.651,720

Local Currency: ...

General | Contact Persons | Addresses | Payment Terms | Payment Run | Accounting | Properties | Remarks | Attachments | eDocs

Generic eDoc Protocol
Default eDoc Generation Type: Not Relevant
Documents Mapping Determination: Double-click to open

PEPPOL
Default eDoc Generation Type:
VAT Structure:
Participant ID:

Update | Cancel | You Can Also

In the Electronic Documents tab of the business partner master data, enter the PEPPOL relevant data of the respective business partner. Select a *Default eDoc Generation Type* and provide a *VAT Structure* and a *Participant ID*. The respective business partner should provide you with this.

4 Generate and Export XRechnung

The screenshot shows the SAP A/R Invoice window. The top section contains customer data: Customer (C50000), Name (INTINTY, Inc), Contact Person (Ingrid Lander), Customer Ref. No. (04011000-900X999-08), and BP Currency (GBP) with a value of 1,6000. The right side shows document details: No. (eDoc), Status (Open), Posting Date (09.02.2021), Due Date (11.03.2021), and Document Date (09.02.2021). The main area has tabs for Contents, Logistics, Accounting, Electronic Documents, and Attachments. The 'Generic eDoc Protocol' section is visible, with fields for eDoc Generation Type (Not Relevant), eDoc Format, Documents Mapping Determination (Double-click to open), and Document Status. The 'PEPPOL' section is highlighted with a red box, containing fields for eDoc Generation Type (Generate), eDoc Format (eDoc Xrechnung 2.0 PEPPOL - Marketing Document), Documents Mapping Determination (Double-click to open), Document Status (New), eDoc Type (380), and eDoc Number. The bottom left shows Sales Employee (Kein Vertriebsmitarbeiter) and Owner (Leitner, Robert). The bottom right shows a summary table with fields for Total Before Discount, Discount, Total Down Payment, Freight, Tax, Total, Applied Amount, and Balance Due. The bottom of the window has buttons for 'Add & New', 'Cancel', 'Copy From', and 'Copy To'.

Generic eDoc Protocol	
eDoc Generation Type	Not Relevant
eDoc Format	
Documents Mapping Determination	Double-click to open
Document Status	

PEPPOL	
eDoc Generation Type	Generate
eDoc Format	eDoc Xrechnung 2.0 PEPPOL - Marketing Document
Documents Mapping Determination	Double-click to open
Document Status	New
eDoc Type	380
eDoc Number	

Summary	
Total Before Discount	
Discount	%
Total Down Payment	
Freight	
Tax	0,000 GBP
Total	0,000 GBP
Applied Amount	
Balance Due	

In the A/R invoice window, you can now create a new outgoing invoice in XRechnungs format. To do this, select **eDoc** as the document number series and enter the PEPPOL-relevant data, if these are not automatically drawn from the business partner master data. You can now create the XRechnung in the correct format using **Add**.

5 Export XRechnung

If you want to export an invoice that has already been created, go to [Reports](#) -> [Electronic Document Monitor](#). If you now select the respective invoice, you can execute the [Export](#) command via [You can also](#)

The screenshot shows the 'Electronic Document Monitor' window. It features a table with columns: #, Type, Status, Doc. Number, BP Code, BP Name, Doc. Date, Doc. Time, Message, Scheduled Job, GUID, Date Received, eDoc Type, and eDoc Number. Two rows are visible, both with a status of 'New'. Below the table, there is an 'OK' button and a dropdown menu with 'Import' and 'Export' options. The 'Export' option is highlighted, and a 'You Can Also' button is visible next to it. A 'Refresh' button is also present at the bottom right.

#	Type	Status	Doc. Number	BP Code	BP Name	Doc. Date	Doc. Time	Message	Scheduled Job	GUID	Date Received	eDoc Type	eDoc Number
1	A/R Document	New	RE 5001	C20000	PC Welt GmbH & Co	01.02.2021	15:20:25			226D83FE7F7328478		380	41A21ECC2506D4C4DCC36835C
2	A/R Document	New	RE 5002	C17000	Larry Lou GmbH	02.02.2021	12:39:27			410AA22988C4CFE0		380	07BDA1A98280C25C52D5323DA7

6 Appendix

6.1 Components XRechnung

XRechnung comprises the following components, which are used for the transmission of electronic invoices to the public administration or support the technical implementation of the standard and are maintained, updated and provided within the operation:

- Documentation of XRechnung (specification XRechnung)
- Technical implementation of the XRechnung business rules. The technical means for validating the supplementary national business rules are available as schema and XSL files.
Note: CEN provides the technical means for validating EN 16931
- Genericcode files (technical representation of code lists in the OASIS standard "Genericcode 1.0")
- Validator and validator configuration (open source reference implementation for checking an XML document for conformity to XRechnung)
- Test suite provision of test cases for example calculations as well as reference messages.
- Components to support the visualization of XRechnung⁸

⁸ https://www.xoev.de/sixcms/media.php/13/Betriebskonzept_XRechnungv1.1-2020-08-05.pdf, 22.01.2021



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